

Lone Mountain Production Company

P.O. Box 3394 • 408 Petroleum Building • Billings, Montana 59103-3394
(406) 245-5077

July 9, 1985

RECEIVED

JUL 11 1985

DIVISION OF OIL
GAS & MINING

Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, Utah 84532

Gentlemen:

Enclosed please find original and three copies of an APD covering the drilling of our Federal No. 18-4 well in Grand County, Utah for your approval.

Yours very truly,

Lone Mountain Production Co.

James G. Routson

James G. Routson
Petroleum Engineer

cc: Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Mr. Ken Currey
P.O. Box 1491
Fruita, Colorado 81521

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐
SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Lone Mountain Production Company

3. ADDRESS OF OPERATOR

P.O. Box 3394 Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface

350' FWL, 900' FNL

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 miles northwest of Mack, Colorado

16. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

350'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

3055

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5541 GL, 5553 KB

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40 STC	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55 ITC	4500'	175 sacks RFC

1. Surface formation is the Mancos.

2. Anticipated geologic markers are: Frontier 3580', Dakota 3883', Morrison 4068', Salt Wash 4383'.

3. Gas is anticipated in the Dakota, Morrison and in the Salt Wash. No oil or other minerals are anticipated. No water sands are expected.

4. Proposed casing program: See Item No. 23 above.

5. Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack, BOP's will be tested before drilling out from under surface casing and checked daily.

6. Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.

7. Auxiliary equipment: See well control plan.

(continued on page 2)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James L. Coulton

TITLE Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

TITLE

DATE

7/29/85

BY

John R. Boyer

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

WELL SPACING: Unit Well A-3

Application for Permit to Drill, Deepen, or Plug Back

18-4

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 18-T17S-R 25E

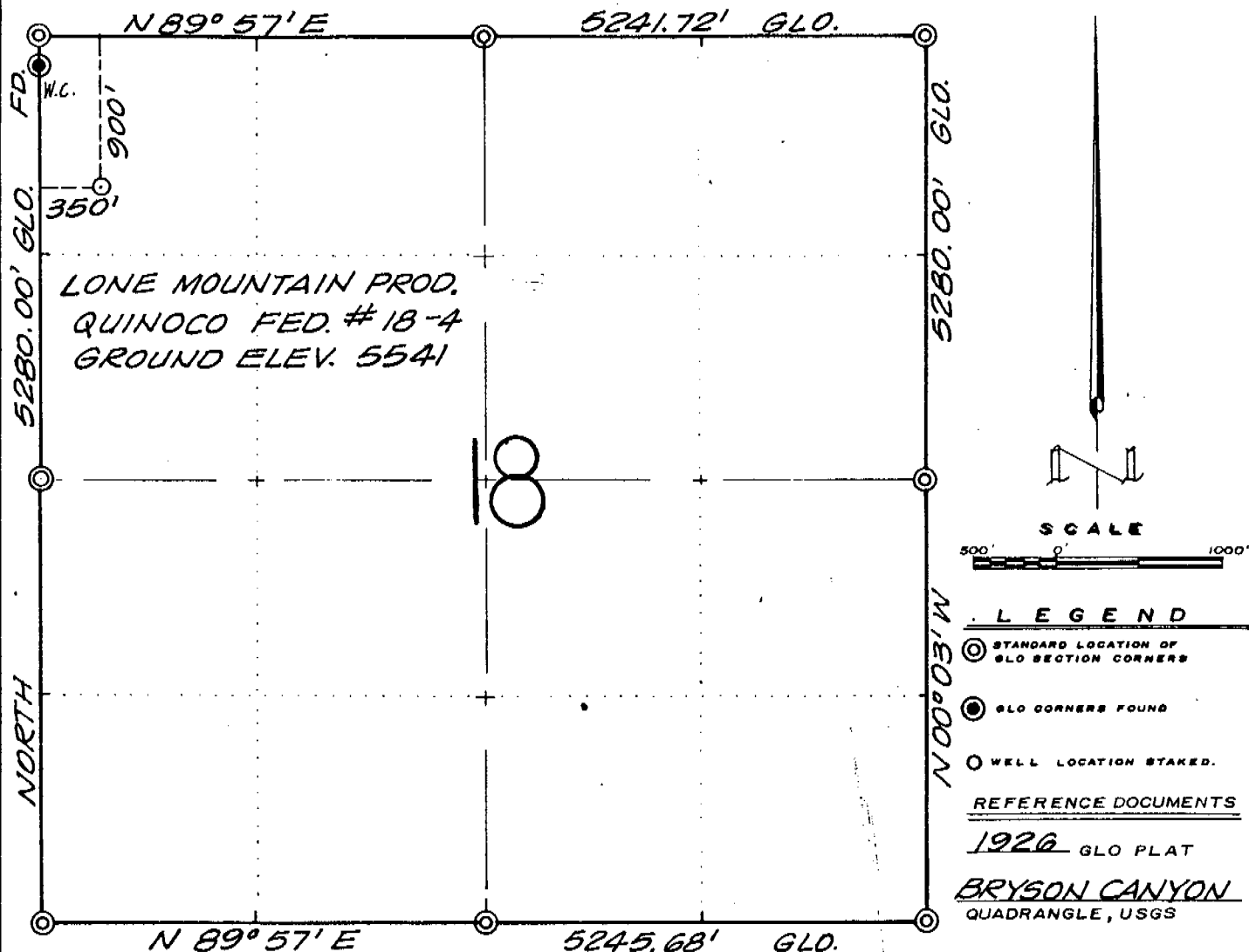
Grand County, Utah

Lease U-38033

Page 2

8. The logging program will consist of a DIL log from TD to base of surface casing, and GR-FDC-CNL logs from TD to above the Frontier. No cores or DST's are planned.
9. No abnormal pressures or temperatures are anticipated. No poisonous gas is anticipated.
10. Anticipated spud date is September 11, 1985. Completion operations should commence within 30 days of rig release.
11. Survey plats are attached.
12. The gas is dedicated to Southwest Gas Company.
13. The spacing unit will be the N $\frac{1}{2}$ of Section 18.
14. Designation of Operator forms from Quinoco will be sent to the BLM in Moab, Utah.
15. The well will be drilled under Quinoco's bond.

SEC. 18, T. 17 S., R. 25 OF THE SLB & M.



THIS WELL LOCATION PLAT WAS PREPARED FOR LONE MOUNTAIN PROD.
TO LOCATE THE QUINOCO FED. #18-4, 900' F.W.L. &
350' F.W.L. IN THE NW 1/4 NW 1/4, OF SECTION 18, T. 17 S., R. 25
OF THE SLB & M. GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE


I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN
THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS
SURVEY WAS MADE UNDER MY DIRECT SUPERVISION
AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D. Becker

SURVEYED	5-22-85	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO 81501 (303) 245-7221	SCALE 1" = 1000'
DRAWN	6-1-85			JOB NO.
CHECKED	6-1-85			SHEET OF

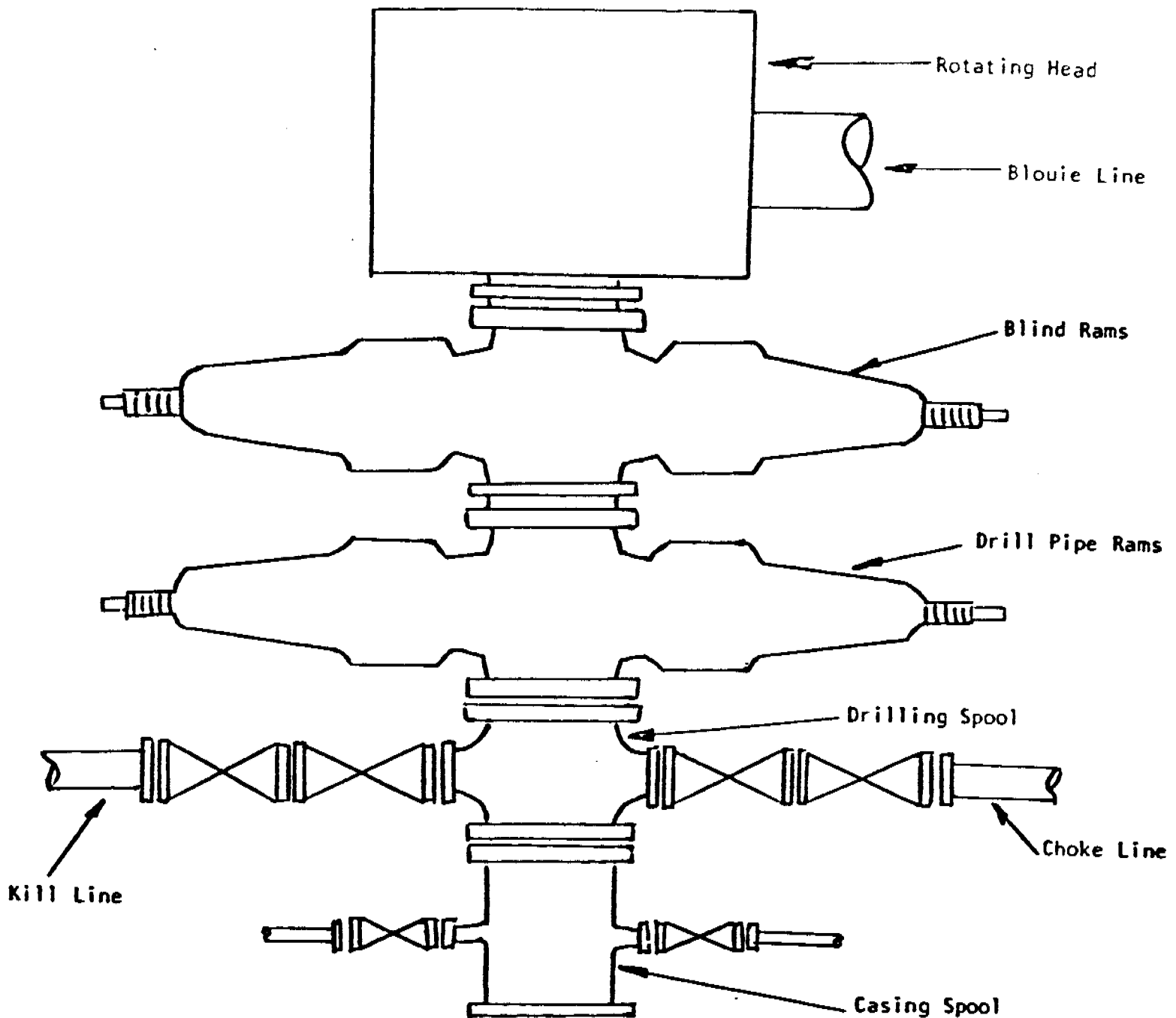
Lone Mountain Production Company
Federal No. 18-4
WELL CONTROL PLAN

1. Surface Casing: 8-5/8" O.D., 24#/ft., Grade H-40, ST&C, set at 300' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 8-5/8" x 8"-900 Series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: None
4. Blowout Preventor: An 8" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 1000 psi prior to drilling shoe joint on surface casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 1200 psi at 3883 or a gradient of .309 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.


James G. Routson
Petroleum Engineer

Air drilled wells using 900 series wellhead equipment.

Interval from 300' to total depth.



SURFACE USE PROGRAM

Lone Mountain Production Company
Federal #18-4
NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec.18-T17S-R25E, S.L.M.
Grand County, Utah

1. Existing Roads

See Vicinity Map, Topo and Access Map and Plat #1. This proposed well is located approximately 20 air miles northwest of Mack, Colorado. It is reached by going west of Mack on Old Highway 6&50 3.5 miles west of the Colorado-Utah border. Turn right and go 5.6 miles to the "T" intersection. Turn right and go 2.7 miles north to the "Y", turn right and go 1.3 miles; turn left (main road) and go 4.0 miles up San Arroyo Canyon. All of the existing roads use for access are county roads. Lone Mountain will share maintenance on those graver/dirt roads with Grand County and the other oil and gas operators in the area. The existing roads are colored green on the reference map.

2. Access Roads to be Constructed and Reconstructed

The 100' of new access road will be incorporated into the Northwest end of the well pad. The width will be 20 feet.

3. Location of Existing Wells

See Map #3. There are 3 producing wells and 2 abandoned wells within 1 mile of the proposed location.

4. Location of Production Facilities

a) On Well Pad. See Plat #4. (Paint everything dark green)

5. Location and Type of Water Supply

The water source for this well is West Salt Creek. The pickup point is on Old Highway 6&50 about 2.5 miles west of Mack, Colorado. The water will be hauled over the well access road.

6. Source of Construction Materials

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside material will be brought in.

7. Methods for Handling Waste Disposal

Cuttings will be buried in the reserve pit at clean up. Garbage and other waste material will be contained in a trash cage. This cage will be dumped at an approved sanitary land fill. Human waste will be disposed of in chemically treated sanitary pits.

Drilling fluids will be contained in the reserve pit and left to evaporate. Any fluids produced during testing operations will be collected in a test tank. If a test tank is not available, the

7. (continued)

fluids will be contained in the reserve pit. Any spills of oil, gas, salt water or noxious fluid will be cleaned up and removed.

If the well is productive, produced water will be disposed of on site for 30 days only, or 90 days with the permission of the District Manager. After that time, application will be made for approval of permanent disposal method in compliance with old MMS Order NTL-2B, and the rules and regulations of the State of Utah.

8. Ancillary Facilities:

No ancillary facilities are planned.

9. Wellsite Layout

See Plat #2 - Pit and Pad Layout

See Plat #2A - Cross Sections of Pit and Pad

See Plat #3 - Rig Layout

The location will be constructed large enough to accomodate the drilling rig and associated equipment with allowance made for future completion and fracturing equipment.

The location construction will begin by stripping and stockpiling all available (4-6") topsoil. The stockpile will be along the north uphill edge of the location.

The reserve pit will be constructed along the north side of the well pad. The pit will be fenced on three sides during drilling and closed on the fourth side at rig release. The fence will be maintained through completion and while the pit area is drying.

10. Plans for Reclamation of the Surface

If the well is productive, the reserve pit will be allowed to dry and then backfilled. All of the area not necessary for production will be resloped, covered with available topsoil and revegetated using a seed formula supplied by the BLM.

If the well is abandoned, the entire area of disturbance will be returned to a reasonable contour approximating the topography of the surrounding area. The topsoil will be distributed over the recontoured area and revegetated using the appropriate seed formula.

Clean-up will begin after completion rig release and resloping should be completed by the Fall of 1985.

11. Surface Ownership

All lands involving new construction are Federal lands.

12. Other Information

The well site is in the bottom of San Arroyo Canyon on a bench. The vegetation is sparse and includes juniper, sagebrush, western wheatgrass, Indian rice grass and a few annual plants.

13. Lessee's or Operator's Representatives and Certification

James G. Routson
Lone Mountain Production Co.
P.O. Box 3394
Billings, Montana 59103
Office Phone: 406-245-5077
Home Phone: 406-245-8797

Ken Currey
Field Consultant
P.O. Box 1491
Fruita, Colorado 81521
Office/Home: 303-858-3257
Mobile: 303-245-3660, Unit 5858

I hereby certify that I, or persons under my supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Lone Mountain Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

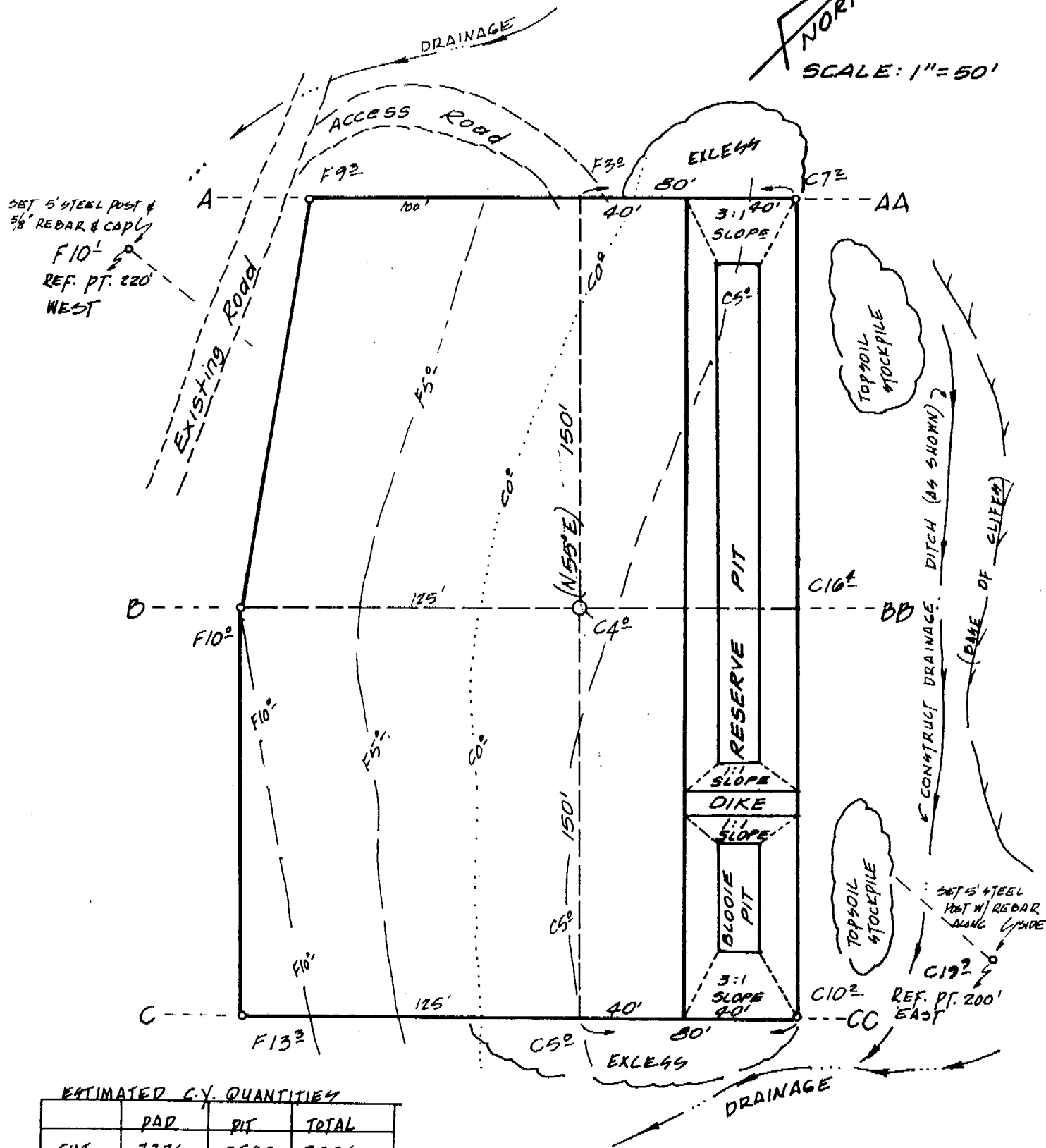
July 9, 1985
Date

James G. Routson

PLAT #
PIT # PAD LAYOUT

NORTH

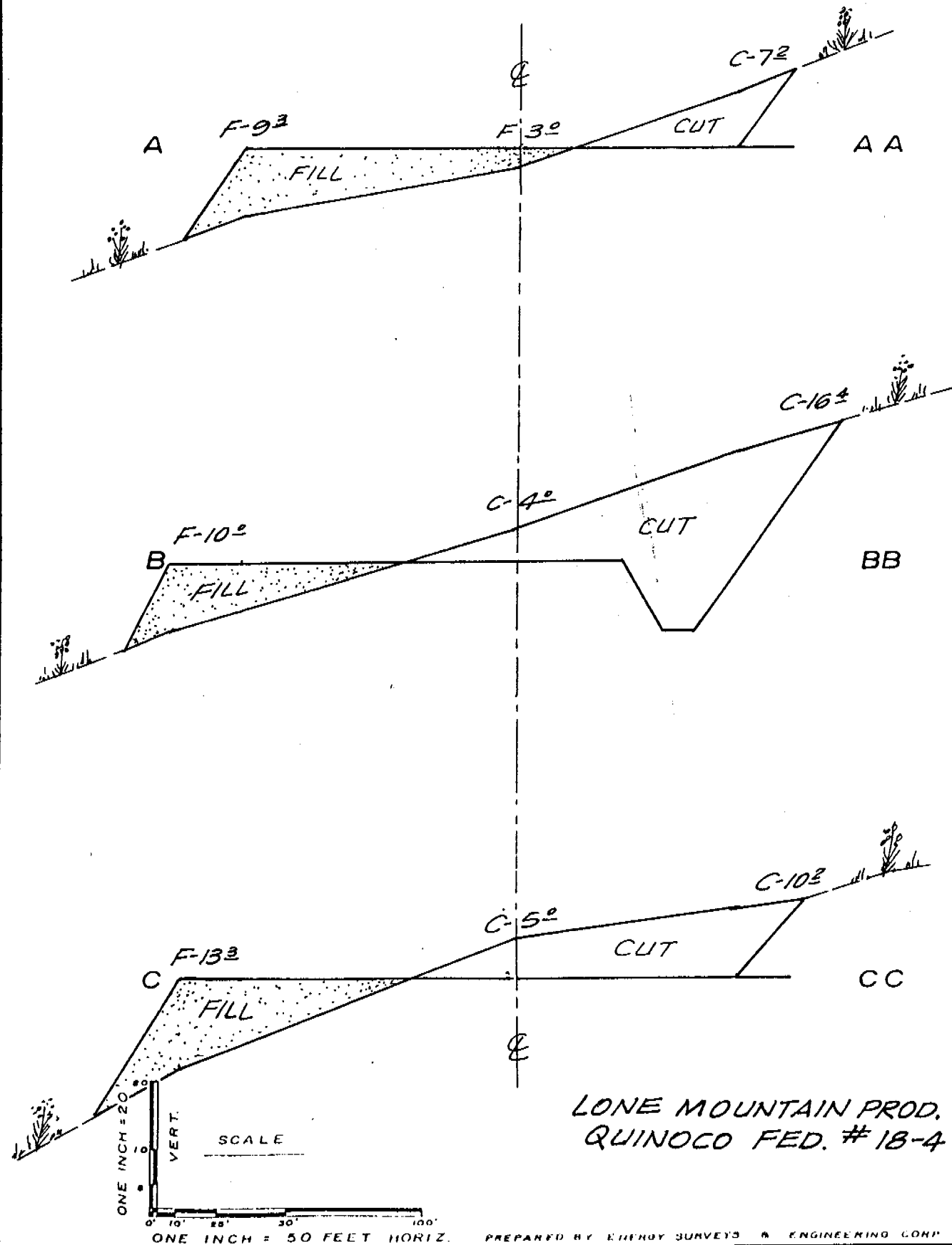
SCALE: 1"=50'



ESTIMATED C.Y. QUANTITIES			
	PAD	PIT	TOTAL
CUT	1276	2500	7776
FILL	5728	—	5728
TOP SOIL	1740	444	2184
EXCESS			1864

PLAT # 2A

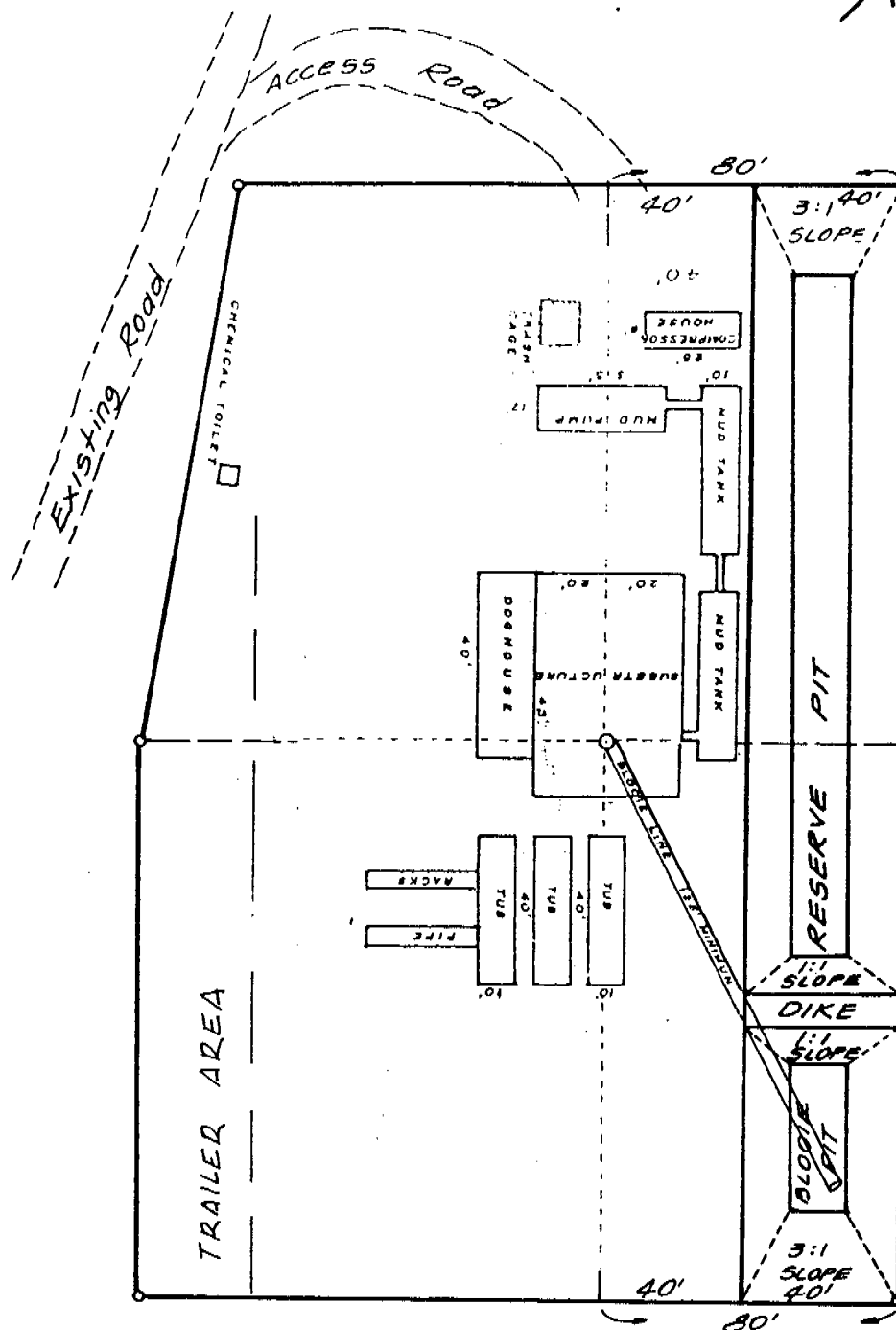
CROSS-SECTIONS
OF PIT & PAD



LONE MOUNTAIN PROD.
QUINOCO FED. # 18-4

PLAT # 3
RIG LAYOUT

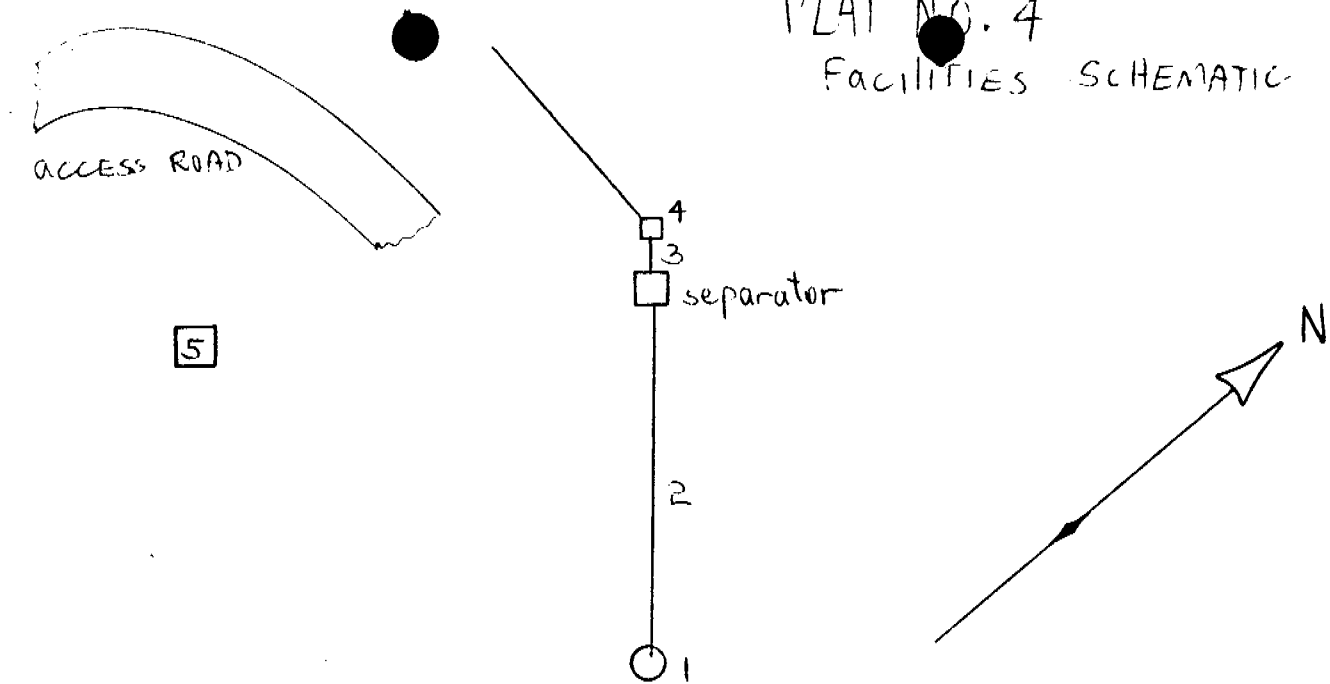
NORTH
SCALE: 1" = 50'



LONE MOUNTAIN PRODUCTION
QUINOCO FED. # 18-4 LOC.

PLAT NO. 4

FACILITIES SCHEMATIC



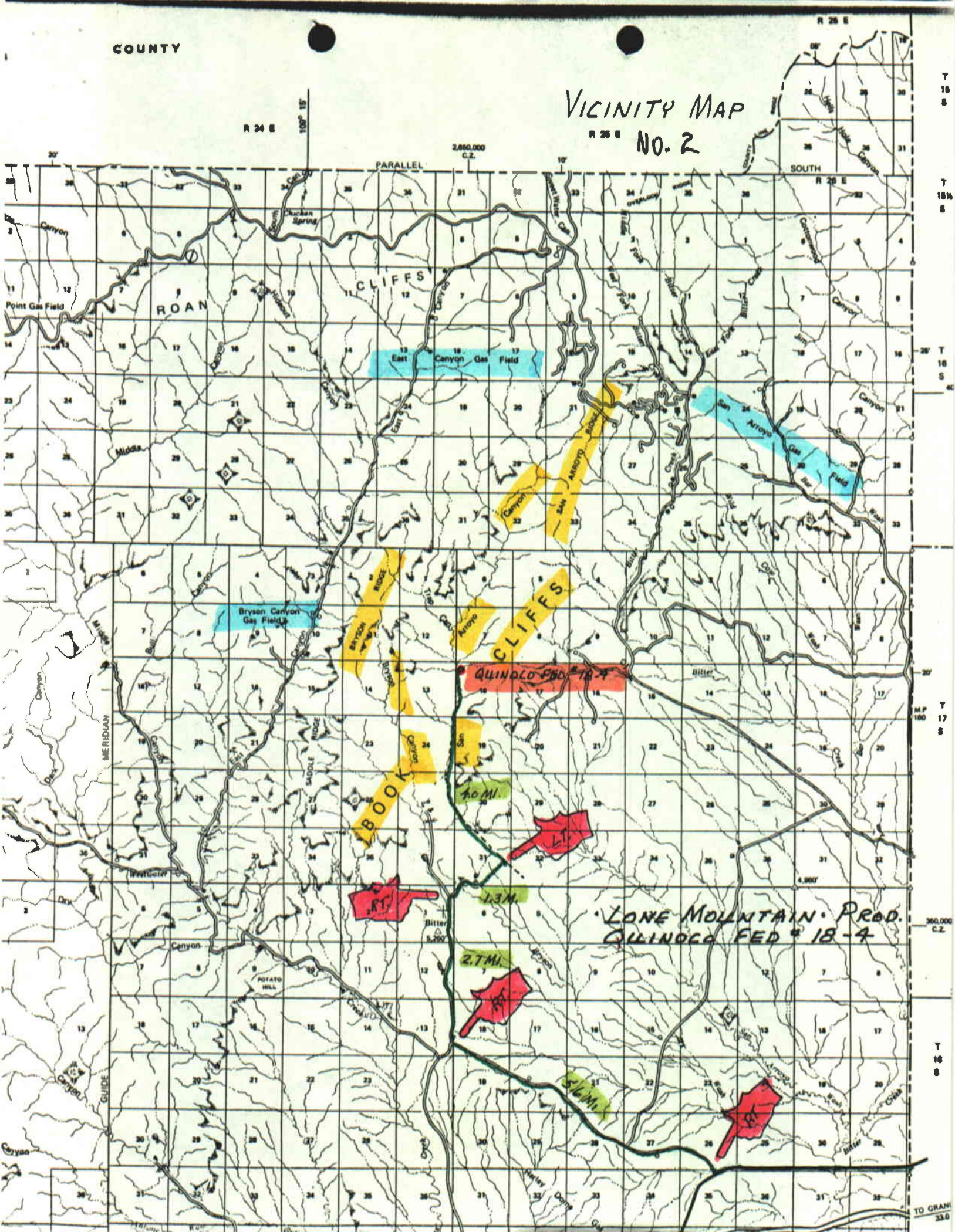
1. Wellhead will be an 8-5/8" Larkin Fig. 92 or equivalent. Tubing head will be a 4 1/2" x 6"-900 Series with two 2" 3000 psi screwed valves. Tree will be 2" screwed x 2000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 2" run, or equivalent, 1000 psi static rating, 100" of water differential rating.
5. Pit will be 10'x 10', enclosed by dikes and fenced.

San

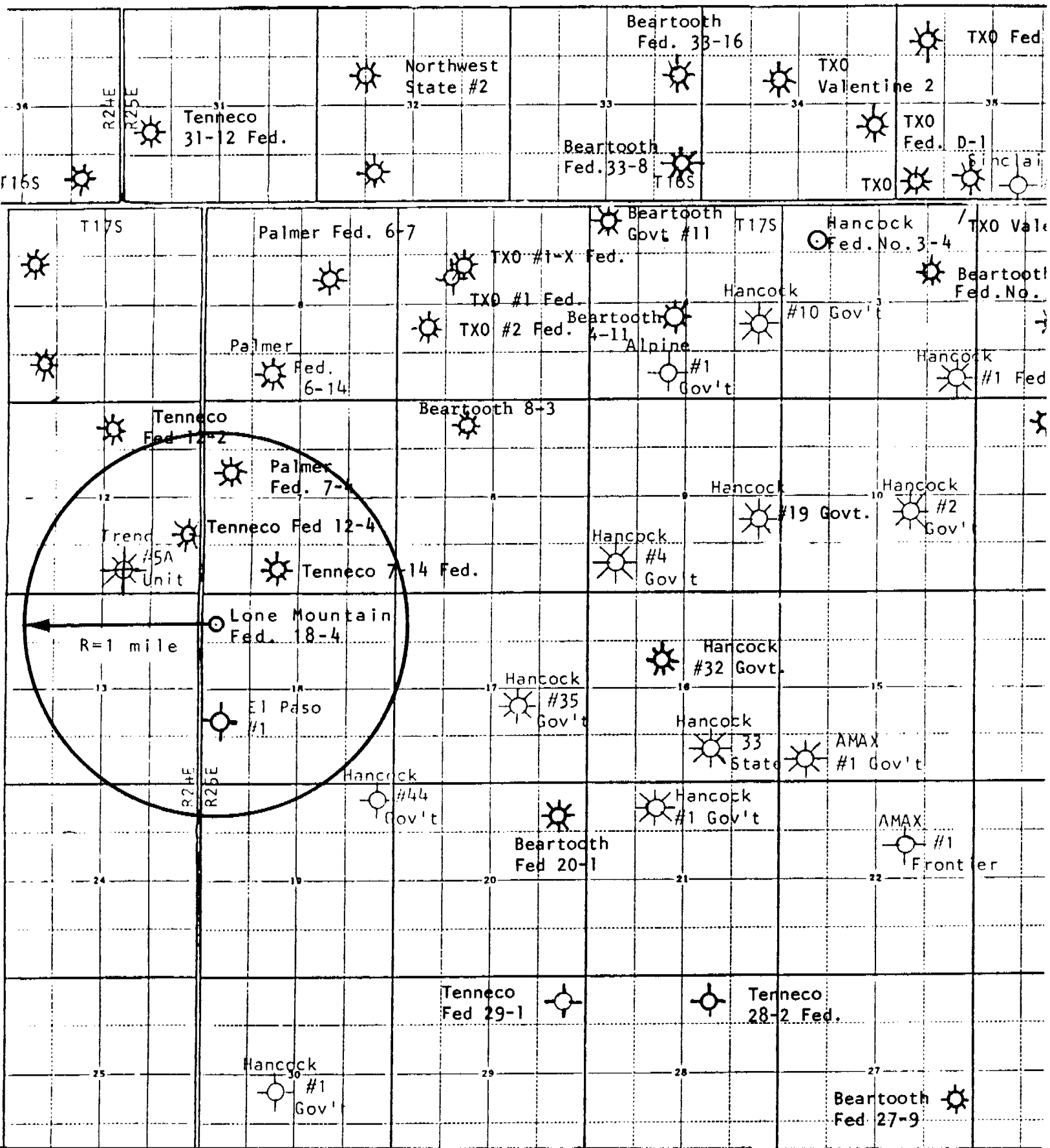
536
 LONE MOUNTAIN PROD.
 QUINOCO FED #18-4

536
 LONE MOUNTAIN PROD.
 QUINOCO FED #18-4

VICINITY MAP
"25" NO. 2



Township 16, 17, 18, Range 24, 25, 26, County Grand, State Utah



072824

OPERATOR

Low Mountain Production Co.

DATE

7-16-85

WELL NAME

Quinnco Federal 18-4

SEC

NW 18

T

17S

R

2SE

COUNTY

Grand

43-019-31196

API NUMBER

Lease

TYPE OF LEASE

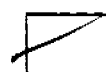
CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

Unit Well - & on PODWater - Meek, CoResignation from Burton Hancock (operator Winter Camp Unit)

APPROVAL LETTER:

SPACING:



A-3

Winter Camp
UNIT

c-3-a

CAUSE NO. & DATE



c-3-b



c-3-c

STIPULATIONS:

1- Resignation from Burton Hancock



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 29, 1985

Lone Mountain Production Company
P. O. Box 3394
Billings, Montana 59103

Gentlemen:

Re: Well No. Quinoco Federal 18-4 - NW NW Sec. 18, T. 17S, R. 25E
900' FNL, 350' FWL - Grand County, Utah

Approval to drill the above-referenced gas well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31196.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

DIVISION OF OIL
& MINING

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Lone Mountain Production Company

3. ADDRESS OF OPERATOR

P.O. Box 3394, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

350' FWL, 900' FNL

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 miles northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

350'

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TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

3055

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5541 GL, 5553 KB

23.

PROPOSED CASING AND CEMENTING PROGRAM

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James L. Fenton

TITLE

Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

/s/ C. Delano Backus

TITLE

Acting DISTRICT MANAGER

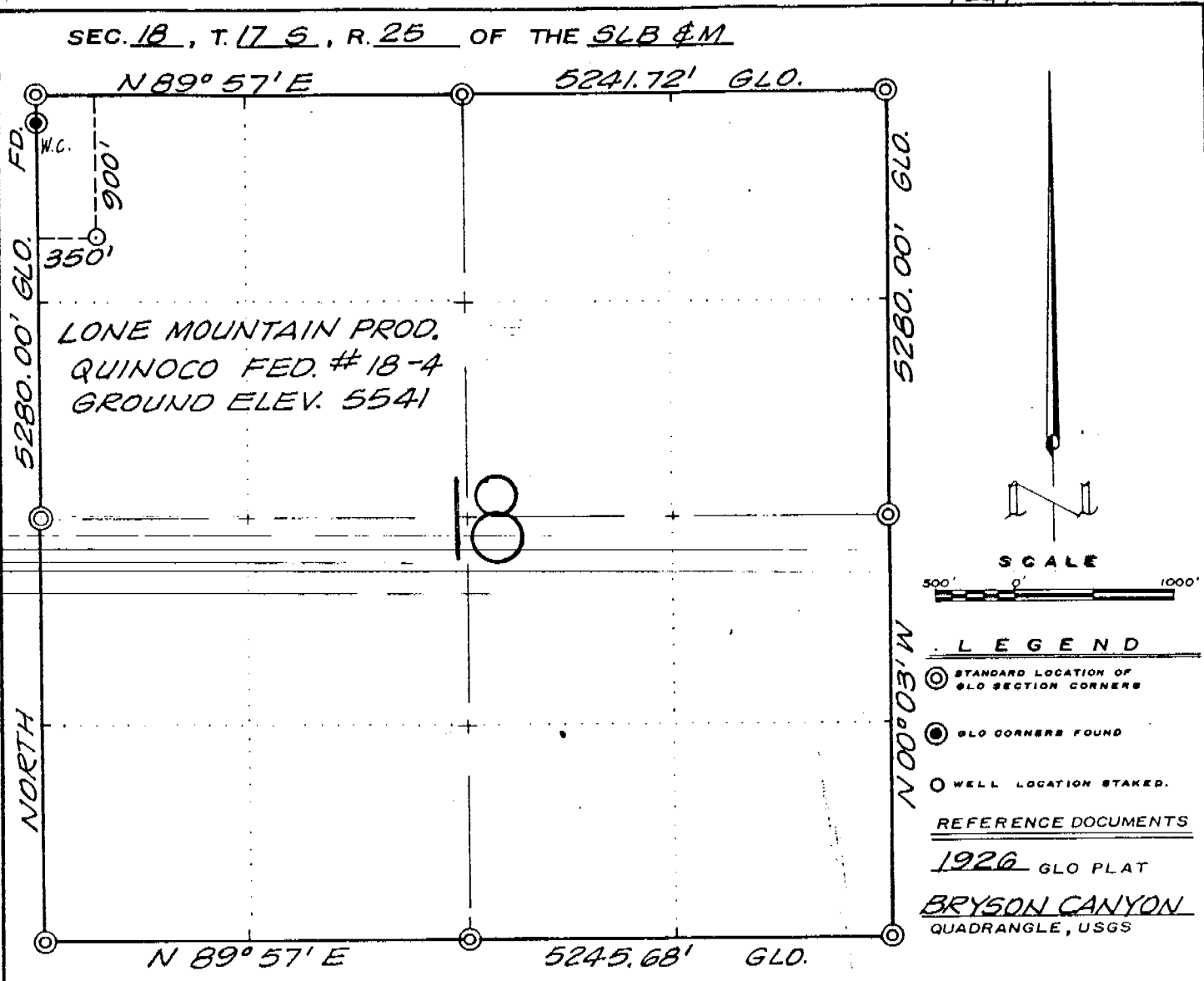
DATE

23 AUG 1985

CONDITIONS OF APPROVAL, IF ANY:

COPIES OF APPROVAL ATTACHED

*See Instructions On Reverse Side



THIS WELL LOCATION PLAT WAS PREPARED FOR LONE MOUNTAIN PROD.
 TO LOCATE THE QUINOCO FED. #18-4, 900' F.N.L. &
350' F.W.L. IN THE NW 1/4 NW 1/4, OF SECTION 18, T. 17 S., R. 25
 OF THE SLB & M.P.M. GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN
 THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS
 SURVEY WAS MADE UNDER MY DIRECT SUPERVISION
 AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D. Becker

SURVEYED	5-22-85	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO 81501 (303) 245 - 7221	SCALE 1" = 1000'
DRAWN	6-1-85			JOB NO
CHECKED	6-1-85			SHEET OF

Lone Mountain Production Company
Well No. Wintercamp Unit Federal 18-4
Sec. 18, T. 17 S., R. 25 E.
Grand County, Utah
Lease U-38033

CONDITIONS OF APPROVAL

A. DRILLING PROGRAM

A backup source capable of closing the B.O.P.'s in case of a primary source failure will be available.

All pressure tests on the B.O.P.E. will be recorded in the driller's log.

Both casing strings will be tested to at least 1000 psi. This will be recorded in the driller's log.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: 'Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, A Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations verbal approval to bring on a replacement rig will be approved through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Office, or the appropriate surface managing agency. Upon completion of approved plugging, a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease number", "Well number", location of well by 1/4 1/4 section, township, and range.

B. SURFACE USE PROGRAM

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

~~Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.~~

Produced waste water will be confined to a pit.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The operator or his contractor will notify the Grand Resource Area at (801) 259-8193 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>		<u>lbs/acre</u>
<u>Grasses</u>		
Sporobolus cryptandrus	Sand dropseed	1
Hilaria jamesii	Galleta (Curlygrass)	1
Agropyron smithii	Western wheatgrass	1
<u>Forbs</u>		
Melilotus officinalis	Yellow sweetclover	1/2
Helianthus annuus	Common sunflower	1/2
<u>Shrubs</u>		
Eurotia lanata	Winterfat (Whitesage)	1
Atriplex canescens	Fourwing saltbush	1
		6 lbs/acre

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer Office Phone: (801)259-6111
Home Phone: _____

District Address:

82 East Dogwood, P.O. Box 970
Moab, Utah 84532

Your contact with the Grand Resource
Area Office is:

Jeff Robbins Office Phone: (801)259-8193
Home Phone: (801)259-7964

Area Office Address:

Sand Flats Road, P.O. Box 11
Moab, Utah 84532

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-019-31196

NAME OF COMPANY: Lone Mountain Production CompanyWELL NAME: Quinoco Federal 18 -4SECTION NW NW 18 TOWNSHIP 17S RANGE 25E COUNTY GrandDRILLING CONTRACTOR Carmack Well ServiceRIG # 20SPUDDED: DATE 9-24-85TIME 12:30 PMHOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Bonnie PaulTELEPHONE # (406) 245-5077DATE 9-25-85 SIGNED AS

OIL AND GAS CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES

OF THE STATE OF COLORADO

REV. 7-64

File in duplicate for Patented and Federal lands.
File in triplicate for State lands.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-38033	
2. NAME OF OPERATOR Lone Mountain Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 3394, Billings, Montana 59103		7. UNIT AGREEMENT NAME Wintercamp	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone 350' FWL, 900' FNL		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. API #43 019 31196		9. WELL NO. 18-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5553 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
12. COUNTY Grand		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ 18-17S 25 E	
13. STATE Utah			

RECEIVED

SEP 27 1985

DIVISION OF OIL
GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT ☐(Other) Spud ☐

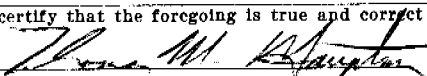
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Date of work 9/24/85Spudded 12 $\frac{1}{4}$ " hole at 12:30 P.M. 9/24/85. Carmack Well Service Rig No. 20.

18. I hereby certify that the foregoing is true and correct

SIGNED



TITLE

President

DATE

9/25/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

2

U-38033

RECEIVED

OCT 07 1985

DIVISION OF OIL GAS & MINING

1. NAME OF OPERATOR: Lone Mountain Production Company

2. ADDRESS OF OPERATOR: P.O. Box 3394, Billings, Montana

3. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
350' FWL, 900' FNL

4. PERMIT NO.: API #43 019 31196

5. ELEVATIONS (Show whether DF, RT, GR, etc.): 5541 GL, 5545 KB

6. UNIT AGREEMENT NAME: Wintercamp

7. FARM OR LEASE NAME: Federal

8. WELL NO.: 18-4

9. FIELD AND POOL, OR WILDCAT: Undesignated

10. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW 1/4 NW 1/4 Sec. 18-T17S-R25E

11. COUNTY OR PARISH: Grand

12. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other)	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

KB corrected from previous reports.
Drilled 12 1/4" hole to 330'. Ran 8-5/8", 24#, J-55 casing to 329'. Cemented with 175 sx Class H, 3% CaCl₂. Good cement returns to surface.

Drilled 7-7/8" hole to 4507'. Ran 4 1/2", 10.5#, J-55 casing to 4169'. PBTD 4131'. Cemented with 175 sx Thixotropic cement. Rig released 2:00 P.M. 10/1/85.

Will move in completion rig about 10/15/85

Log Tops:	Dakota Silt	3815
	Dakota Sand	3904
	Morrison	4030
	Salt Wash	4364

18. I hereby certify that the foregoing is true and correct

SIGNED James D. Routson TITLE Petroleum Engineer DATE 10/2/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED

OCT 07 1985

DIVISION OF OIL
GAS & MINING

LONE MOUNTAIN PRODUCTION COMPANY

FEDERAL NO. 18-4

NW/NW SECTION 18, T17S, R25E

GRAND COUNTY, UTAH

GEOLOGIC REPORT

BY

BILL NAGEL

ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

WELL SUMMARY

OPERATOR: LONE MOUNTAIN PRODUCTION COMPANY

WELL NAME: FEDERAL NO. 18-4

LOCATION: NW/NW SECTION 18, T17S, R25E
FOOTAGE: 900' FNL - 350' FWL

COUNTY: GRAND

STATE: UTAH

AREA: SOUTH SAN ARROYO PROSPECT

ELEVATION: GL 5541' - KB 5545'

SPUD DATE: 9/24/85

COMPLETION DATE: 9/30/85

DRILLING ENGINEER: GLENN ROSS

WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
GEOLOGIST: BILL NAGEL

DRILLING CONTRACTOR: CARMACK WELL SERVICE, INC.
RIG: RIG #20

TOOL PUSHER: CHRIS CARMACK

HOLE SIZE: 12 $\frac{1}{4}$ " TO 330'; 7 7/8" TO T.D.

CASING RECORD: 8 5/8" TO 329'

AIR COMPRESSORS: FRONTIER AIR DRILLING COMPANY

ELECTRIC LOGGING: SCHLUMBERGER
TYPE OF LOGS RUN: DIL-GR-SP, GR-FDC-CNL

OBJECTIVE: DAKOTA, MORRISON

TOTAL DEPTH: 4507'

STATUS: RUN 4 $\frac{1}{2}$ " PRODUCTION CASING

LONE MOUNTAIN PRODUCTION COMPANY
 FEDERAL NO. 18-4
 NW/NW SECTION 18, T17S, R25E
 GRAND COUNTY, UTAH

WELL CHRONOLOGY			
1985 DATE	MDNT DEPTH	FTG/ DAY	DAILY OPERATIONS
9/24	-0-	120	DRLG MOUSEHOLE - DRLG SURFACE - WORK HOLE - MIX MUD & DRL AHEAD
9/25	120	210	DRLG - POOH & RUN CSG - CMT CSG - WOC - DIG CELLAR
9/26	330	385	NIPPLE UP - RUN BLOOIE LINE - PRESS TEST - WAIT ON FLANGE - PRESS TEST BOP - DRLG CMT - DRLG AHEAD
9/27	715	1678	DRLG AHEAD
9/28	2393	590	WO SWIVEL - DRLG AHEAD
9/29	2983	1524	DRLG - CHG OUT SWIVEL - DRLG - REPAIR HYDRO HOSE - DRLG - MIST UP - DRLG AHEAD
9/30	4507	-0-	CIRC - MIX MUD - MUD UP - CIRC - SHORT TRIP - CIRC- POOH - RUN E-LOGS

BIT RECORD

WELL NAME: FEDERAL 18-4 ELEVATION: GL 5541' - KB 5545'
CO. NAME: LONE MOUNTAIN PROD. CO. SECTION: S18-T17S-R25E
CONTRACTOR: CARMACK WELL SERV RIG# 20 CO. & STATE: GRAND, UTAH
SPUD DATE: 9/24/85 T.D. DATE: 9/30/8t

[illegible]

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
NWNW SECTION 18, T17S, R25E
GRAND COUNTY, UTAH

SAMPLE DESCRIPTIONS

2900-2940	100%	SH dkgy frm blk-pty
2940-2970	100%	SH AA w/occ slsdy & slty
2970-3000	100%	SH dkgy frm blk-pty /occ slsly
3000-3030	100%	SH dkgy frm blk-pty
3030-3090	100%	SH dkgy frm blk-pty /occ slsly
3090-3240	100%	SH dkgy frm blk-pty
3240-3270	100%	SH dkgy frm blk-pty /occ slsly
3270-3310	100%	SH AA
	TR	BENT wh sft pty
3310-3400	100%	SH dkgy frm blk-pty /occ slsly
3400-3460	100%	SH dkgy frm blk-pty /occ slsly & sndy
3460-3490	100%	SH dkgy frm blk-pty /occ slsly
	TR	CALC FRAG clr
3490-3535	100%	SH dkgy frm blk-pty
3535-3550	100%	SH AA
	TR	CALC FRAG clr
3550-3595	100%	SH dkgy frm blk
3595-3610	100%	SH dkgy-blk frm blk-pty
3610-3625	100%	SH blk frm blk-pty
	TR	PYR
3625-3640	100%	SH AA
	TR	CALC FRAG clr
3640-3655	100%	SH AA
3655-3685	100%	SH blk frm blk-pty
3685-3715	100%	SH blk-dkgy frm blk-pty
3715-3730	100%	SH dkgy frm blk-pty
	TR	BENT wh sft pty
3730-3745	90%	SH AA
	10%	SS clr vfg mcmt msrt sbang-sbrd slarg
3745-3760	70%	SH dkgy frm blk-pty
	30%	SS ltgy vfg mcmt msrt sbang-sbrd glac incl sl arg
3760-3775	60%	SH AA
	40%	SS lt-mgy vfg mcmt msrt sbang-sbrd glac & pyr incl
3775-3790	80%	SH dkgy frm blk-pty slsdy
	20%	SS AA
3790-3805	80%	SH AA
	20%	SS clr vfg-fg mcmt msrt sbang-sbrd slarg
3805-3820	60%	SH AA
	40%	SS clr mgy vfg mcmt msrt sbang-sbrd mod-arg
3820-3835	70%	SH dkgy frm blk-pty /occ sdy
	30%	SS AA
3835-3850	70%	SH AA
	30%	SS mgy vfg mcmt msrt sbang-sbrd arg
	TR	BENT wh sft pty
3850-3865	100%	SH dkgy frm blk-pty /occ sdy
	ABNT	BENT wh sft pty
3865-3880	80%	SH AA
	20%	SS clr vfg uncons msrt sbang
	TR	BENT wh sft pty
3920-3935	80%	SH AA
	20%	SS clr-ltgy vfg p-mcmt msrt sbang-sbrd
	ABNT	BENT wh-ltbrn sft pty

LONE MOUNTAIN PROD. CO.
FEDERAL NO. 18-4
SAMPLE DESC. CONTINUED

3935-3950	100%	SS ltgy vfg m-wcmt m-wsrt sbang-sbrd slcalc
3950-3985	100%	SS clr f-vfg unconc m-wsrt sbrd
3985-4000	100%	SH dkgy-blk frm blk-pty
4000-4015	70%	SH AA
	30%	SS AA
4015-4045		NO RETURNS (HOLE DAMP)
4045-4060	50%	SH dkgy occ ltgy frm-hd blk-pty
	50%	SS ltgy f-vfg wcmt msrt sbang-sbrd sil-cmt occ arg
4060-4075	70%	SH AA
	30%	SS ltgy-clr vfg wcmt msrt sbrd sil-cmt arg
4075-4090	80%	SH ltgy red ltgn frm-hd blk-pty occ slsdy
	20%	SS AA
4090-4105	80%	SH AA
	20%	SS clr vfg wcmt m-wsrt sbang-sbrd sil-cmt
4105-4120	100%	SH AA
4120-4135	80%	SH AA
	20%	SS wh vfg wcmt m-wsrt sbang-sbrd sil-cmt cly fl
4135-4150	80%	SH ltgy occ red-mar frm-hd blk-pty occ sdy
	20%	SS AA
4150-4165	80%	SH AA /occ purp
	20%	SS wh-ltgy vfg wcmt m-wsrt sbrd sil-cmt slarg
4165-4195	100%	SH ltgy-ltgn red purp hd-frm blk-pty
4195-4210	90%	SH ltgy-ltgn red hd-frm blk-pty
	10%	SS clr-wh vfg wcmt msrt sbrd occ SH INCL
4210-4225	90%	SH ltgy red ltgn hd-frm blk-pty
	10%	SS AA
4225-4240	80%	SH AA
	20%	SS clr-wh f-vfg wcmt sil-cmt msrt sbrd occ cly fl
4240-4255	90%	SH ltgy-ltgn red pnk sft-hd blk-pty occ slty
	10%	SS AA
	TR	CHT FRAG gn hd
4255-4270	100%	SH red ltgy-ltgn frm-hd blk-pty occ slty
4270-4385	90%	SH AA
	10%	SS pnk vfg wcmt m-wsrt sbrd sil-cmt
4285-4300	100%	SH red mar purp ltgy-ltgn frm-hd blk-pty occ slty
4300-4315	90%	SH AA
	10%	SS wh-clr vfg wcmt sil-cmt msrt sbrd
4315-4345	100%	SH red frm blk-pty occ slty
4345-4360	90%	SH AA
	10%	SS clr vfg wcmt sil-cmt sbang-sbrd
4360-4375	80%	SH red mar purp frm-hd blk-pty occ slty
	20%	SS clr-wh vfg wcmt sil-cmt msrt sbang-sbrd
4375-4390	70%	SH AA
	30%	SS clr-wh vfg wcmt sil-cmt msrt sbang-sbrd slarg
4390-4405	60%	SH red ltgy purp frm-hd blk-pty slsly
	40%	SS ltgy vfg wcmt silcmt wsrt sbrd occ slarg
4405-4420	60%	SS clr-ltgy ltgn vfg wcmt wsrt sbrd slty
	40%	SH AA
4420-4435	60%	SS AA
	40%	SH red ltgy purp ltgn frm blk-pty
4435-4450	50%	SS ltgy-clr vfg m-wcmt sil cmt m-wsrt sbrd-sbagn
	50%	SH ltgy-ltgn frm-dh blk-pty
4450-4465	70%	SH red ltgy-ltgn frm-hd blk-pty slsly
	30%	SS AA
4465-4480	70%	SH AA
	30%	SS clr vfg m-wcmt msrt sbang-sbrd

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
SAMPLE DESCRIPTION CONTINUED

4480-4495	70%	SH red ltgy-ltgn frm-hd blk-ply slsly
	30%	SS AA
4495-4507	80%	SH AA
	20%	SS ltgy-clr vfg m-wcmt msrt sbang-sbrd

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
NW/NW SECTION 18, T17S, R25E
GRAND COUNTY, UTAH

FORMATION TOPS			
FORMATION	SAMPLE	E-LOG	DATUM
MANCOS	SURFACE		
FRONTIER	3570'	3548'	+1997
DAKOTA SILT	3842'	3825'	+1720
DAKOTA	3906'	3890'	+1655
MORRISON	4080'	4032'	+1513
SALT WASH	4385'	4363'	+1182

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

Lone Mountain Production Company's Federal No. 18-4 well was a Dakota and Morrison test. The well was located in the NW/NW Section 18, T17S, R25E of Grand County, Utah. Spudded in the lower Mesaverde Formation on September 24, 1985, the well was drilled to a total depth of 4507' in the Salt Wash Member of the Morrison Formation on September 30, 1985. Production casing was run to the total depth.

MANCOS FM (SURFACE - 3548')

The Mancos Formation consisted of dark gray, firm, blocky to platy shale. This shale was occasionally silty and sandy with traces of calcite crystals.

There were no gas shows in the lower Mancos Formation. Background gas was 2 units and connection gas recorded 90 to 180 units.

FRONTIER FM (3548' - 3828')

The Frontier Formation was predominantly shale with beds of sandstone near the base. The shale was black, dark gray, firm, blocky to platy and was occasionally silty with traces of bentonite. At 3510' the Frontier Shale began changing to black from a dark gray. The sandstone was light to medium gray, clear, very fine grained, medium cemented, medium sorted, subrounded to sub-angular and argillaceous with occasional glauconite inclusions.

Two gas shows noted in the Frontier Shale occurred at 3623'-3630' of 38 units and at 3765'-3771' of 10 units. Background gas ranged between 2-10 units and connection gas was noted from 90-220 units.

DAKOTA SILT (3825' - 3890')

The Dakota Silt was composed of interbedded sandstone and shale. The sandstone was medium gray, clear, very fine grained, unconsolidated-medium cemented, medium sorted, subangular-subrounded and slightly argillaceous. Shale was dark gray to black, firm and blocky to platy.

There were no gas shows noted in the Dakota Silt. Background gas was 2 units and connection gas was 150 units.

DAKOTA FM (3890' - 4032')

The Dakota Formation contained three sandstone beds with shale in-between the beds. The top sandstone bed at 3904'-3919' was a clear, very fine grained, unconsolidated, medium sorted and subangular sandstone. A gas show of 150 units was noted during the drilling of this sandstone. Although there was no flare during this gas show, the next connection gas of 450 units did flare. Electric logs showed this sandstone to have very good crossover with an average of 10% porosity.

The second sandstone of the Dakota was at 3940'-3973'. This sandstone was clear, light gray, very fine to fine grained, unconsolidate, medium to well sorted and subrounded to subangular. During the drilling of this sand interval, the gas increased to 230 units with no flare. Connection gas increased to 700 units with flaring continuing until T. D. Electric logs showed this zone to have very good crossover with an average of 11% porosity.

The last Dakota sandstone bed occurred at 3998'-4019'. This sandstone was clear, very fine to fine grained, unconsolidated, medium to well sorted and subrounded. The hole became wet during the drilling of this zone and it became necessary to start drilling with air mist. There were no gas shows noted in this sandstone interval. Electric logs showed the sandstone bed to be wet.

MORRISON FM (4032' - T.D.)

The upper member of the Morrison, the Brushy Basin (4032'-4363'), was composed primarily of shale with occasional sandstone beds. The shale was light gray, light green, red, purple, maroon, soft to hard, platy to blocky and occasionally sandy. The sandstone was clear, white, pink, very fine grained, well cemented, medium to well cemented and subrounded to subangular. There were no gas shows noted in the Brush Basin Member. Background gas was 135-150 units and connection gas was 400-600 units.

The lower member of the Morrison, the Salt Wash (4363' - T.D.), contained interbedded sandstone and shale. The sandstone was light gray, and clear, white, very fine grained, medium to well cemented, medium to well sorted and subangular to subrounded. A gas increase of 45 units was noted in the Salt Wash at 4445'-4455'. Background gas was 135-180 units and connection gas was 420-500 units.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED

OCT 07 1985

DIVISION OF OIL
& MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number _____ Federal No. 18-4

Operator Lone Mountain Production Co. Address P.O. Box 3394, Billings, MT 59103

Contractor Carmack Well Service Address 2154 Hwy 6450, Grand Junction, CO 81505

Location NW 1/4 NW 1/4 Sec. 18 T. 17S R. 25E County Grand

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	NONE			
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

<u>Formation Tops</u>	Dakota Silt	3815
	Dakota Sand	3904
	Morrison	4030
<u>Remarks</u>	Sat'l Wash	4364

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

RECEIVED

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐ OCT 30 1985

2. NAME OF OPERATOR
LONE MOUNTAIN PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 350' FWL, 900' FNL

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO. 43-019-31196
DATE ISSUED 7/29/85

15. DATE SPUDDED 9/24/85
16. DATE T.D. REACHED 9/30/85
17. DATE COMPL. (Ready to prod.) 10/23/85
18. ELEVATIONS (DF, RNB, RT, GR, ETC.)* 5541 GL, 5545 KB

20. TOTAL DEPTH, MD & TVD 4507
21. PLUG. BACK T.D., MD & TVD 4131
22. IF MULTIPLE COMPL., HOW MANY*
23. INTERVALS DRILLED BY → 0-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Dakota Sandstone 3904-3920, 3940-3972

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-FDC-CNL, SP-GR-DIL, GR-CBL-VDL

19. ELEV. CASINGHEAD 5541

25. WAS DIRECTIONAL SURVEY MADE
None

27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	329	12 1/4	175 sx. class H (to surface)	None
4 1/2"	10.5#	4169	7-7/8	175 sx. thixotropic (to 3460)	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					1 1/2"	4008 KB	None

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
1-.31" diameter hole each at 3909, 3912, 3947, 3952, 3962, 3967; 6 holes total.		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		3909-3967	500 gallons 15% HCl
		3909-3967	Foam fractured with 83,920 gallons 75 quality foam; 20,000# 100 mesh sand, 80,000# 20-40 sand.

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
10/12/85		Flowing				Shut-In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/23/85	26	1 1/2"	→	0	1484	0	--
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
230 psig	450 psig	→	0	1370	0	--	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented

35. LIST OF ATTACHMENTS
None; logs & Geologists reports have been sent directly by the service companies

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED James R. Ranton TITLE Petroleum Engineer DATE 10/25/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Dakota	3904	3920	Tight gas	Mancos	Surface	same
Dakota	3940	3972	Tight gas	Frontier	3548	same
Dakota	3998	4030	Tight-damp with water	Dakota Silt	3815	same
				Dakota Sand	3904	same
				Morrison	4030	same
				Salt Wash	4364	same
				(Morrison)		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY	
3. ADDRESS OF OPERATOR P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103	
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations. See also space 17 below.) At surface 350' FWL, 900' FNL, Section 18	
14. PERMIT NO. 43-019-31196	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5545 KB

RECEIVED

NOV 04 1985

DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO. U-38033	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME Winter Camp	
8. FARM OR LEASE NAME Federal	
9. WELL NO. 18-4	
10. FIELD AND POOL, OR WILDCAT Undesignated	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E	
12. COUNTY OR PARISH Grand	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	Status Report	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in, waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED James D. Ponton

TITLE Petroleum Engineer

DATE 10/31/85

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-38033

Communitization Agreement No. _____

Field Name UndesignatedUnit Name NoneParticipating Area None (spaced area is N $\frac{1}{2}$ Section 18)County Grand State UtahOperator Lone Mountain Production Company☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September, 19 85

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & $\frac{1}{4}$ of $\frac{1}{4}$	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-4	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 1	17S	25E	DRG	0	--	---	---	---

RECEIVED

NOV 04 1985

DIVISION OF OIL
GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: Bonnie M. Paul Address: P.O. Box 3394, Billings, MT 59103Title: Office ManagerPage 1 of 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-38033
Communitization Agreement No. _____
Field Name Undesignated
Unit Name None
Participating Area None (spaced area is N $\frac{1}{2}$ Section 18)
County Grand State Utah
Operator Lone Mountain Production Company

☒ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September, 1985

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & $\frac{1}{4}$ of $\frac{1}{4}$	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-4	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18	17S	25E	DRG	0				

RECEIVED

NOV 06 1985

DIVISION OF OIL
GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX
Authorized Signature: <u>Bonnie Paul</u>	Address: <u>P.O. Box 3394, Billings, MT 59103</u>		
Title: <u>Office Manager</u>	Page <u>1</u> of <u>1</u>		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-38033
Communitization Agreement No. _____
Field Name Undesignated
Unit Name None
Participating Area None (spaced area is N $\frac{1}{2}$ Section 18)
County Grand State Utah
Operator Lone Mountain Production Company
☒ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 1985

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & $\frac{1}{4}$ of $\frac{1}{4}$	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-4	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18	17S	25E	GSI	0				
<p>RECEIVED</p> <p>NOV 06 1985</p> <p>DIVISION OF OIL GAS & MINING</p>									

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: Bonnie Paul Address: P.O. Box 3394, Billings, MT 59103
Title: Office Manager Page 1 of 1

LONE MOUNTAIN PRODUCTION COMPANY

P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103-3394
(406) 245-5077

RECEIVED

NOV 07 1985

**DIVISION OF OIL
& GAS & MINING**

November 4, 1985

Division of Oil, Gas, & Mining
4241 State Office Bldg.
Salt Lake City, UT 84114

Re: Federal No. 18-4 Well
Lease No. U-38033
Winter Camp Unit
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 18-T17S-R25E
Grand County, UT

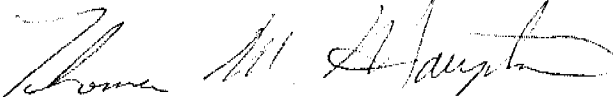
Gentlemen:

The above captioned well is a "tight hole". Please place
it on "confidential" status.

Thank you.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY



Thomas M. Hauptman

TMH:bp

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-01
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	DEC 05 1985
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY	
3. ADDRESS OF OPERATOR P.O. Box 3394, 408 Petroleum Bldg., Billings, MT 59103	DIVISION OF OIL & GAS & MINING
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 350' FWL, 900' FNL, Section 18	
14. PERMIT NO. 43-019-31196	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5545 KB

5. LEASE DESIGNATION AND SERIAL NO. U-38033	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME Winter Camp	
8. FARM OR LEASE NAME Federal	
9. WELL NO. 18-4	
10. FIELD AND POOL, OR WILDCAT Undesignated	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E	
12. COUNTY OR PARISH Grand	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANE	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Status Report	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in--Waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED James G. Routson
(This space for Federal or State office use)

TITLE Petroleum Engineer

DATE 12/2/85

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-38033
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103		7. UNIT AGREEMENT NAME Winter Camp
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 350' FWL, 900' FNL, Section 18		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-019-31196		9. WELL NO. 18-4
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5545 KB		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW¼ NW¼ Sec. 18-T17S-R25E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Shut in-- Waiting on pipeline.

RECEIVED

JAN 06 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson
James G. Routson

TITLE

Petroleum Engineer

DATE

1/3/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

080611

Budget Category No. 1001-013
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

18-4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E

14. PERMIT NO.

43-019-31196

15. ELEVATIONS (Show whether DF, NT, GR, etc.)

5541 GL, 5545 KB

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in-- Waiting on pipeline.

RECEIVED

AUG 04 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson
James G. Routson

TITLE

Petroleum Engineer

DATE

7/31/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

080611

Budget Budget No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
LONE MOUNTAIN PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
350' FWL, 900' FNL, Section 18

7. UNIT AGREEMENT NAME
Winter Camp

8. FARM OR LEASE NAME
Federal

9. WELL NO.
18-4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E

14. PERMIT NO.
43-019-31196

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5541 GL, 5545 KB

12. COUNTY OR PARISH
Grand

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
(Other) ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
ABANDON* ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) Status Report ☒
REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Shut in-- Waiting on pipeline.

RECEIVED

AUG 04 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED James G. Routson

TITLE Petroleum Engineer

DATE 7/31/86

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

091519

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR
LONE MOUNTAIN PRODUCTION COMPANY
3. ADDRESS OF OPERATOR
P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
350' FWL, 900' FNL, Section 18

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

18-4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR PLK. AND SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E

14. PERMIT NO.

43-019-31196

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5541 GL, 5545 KB

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) Notice of first delivery ☒

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First delivered to Northwest Pipeline 9/11/86 at 11:00 A.M. Verbal notification phoned to Steve Jones, BLM, Moab District Office at 4:15 P.M. on 9/11/86.

RECEIVED
SEP 15 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE

9/12/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Lone Mountain Production Company

P.O. Box 3394 • 408 Petroleum Building • Billings, Montana 59103-3394
(406) 245-5077

July 9, 1985

RECEIVED

JUL 11 1985

DIVISION OF OIL
GAS & MINING

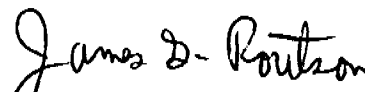
Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, Utah 84532

Gentlemen:

Enclosed please find original and three copies of an APD covering the drilling of our Federal No. 18-4 well in Grand County, Utah for your approval.

Yours very truly,

Lone Mountain Production Co.



James G. Routson
Petroleum Engineer

cc: Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Mr. Ken Currey
P.O. Box 1491
Fruita, Colorado 81521

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Lone Mountain Production Company

3. ADDRESS OF OPERATOR
P.O. Box 3394 Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface
350' FWL, 900' FNL
At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
21 miles northwest of Mack, Colorado

16. NO. OF ACRES IN LEASE
952.94

17. NO. OF ACRES ASSIGNED TO THIS WELL
317.74

19. PROPOSED DEPTH
4500'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5541 GL, 5553 KB

22. APPROX. DATE WORK WILL START*
September 11, 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

5. LEASE DESIGNATION AND SERIAL NO.
U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
WINTER CAMP UNIT

8. FARM OR LEASE NAME
Federal QUINOCO

9. WELL NO.
18-4

10. FIELD AND POOL, OR WILDCAT
☒ Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW $\frac{1}{4}$ NW $\frac{1}{4}$ 18-17S-25E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40 STC	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55 ITC	4500'	175 sacks RFC

- Surface formation is the Mancos.
 - Anticipated geologic markers are: Frontier 3580', Dakota 3883', Morrison 4068', Salt Wash 4383'.
 - Gas is anticipated in the Dakota, Morrison and in the Salt Wash. No oil or other minerals are anticipated. No water sands are expected.
 - Proposed casing program: See Item No. 23 above.
 - Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack, BOP's will be tested before drilling out from under surface casing and checked daily.
 - Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.
 - Auxiliary equipment: See well control plan.
- (continued on page 2)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED James L. Coulton TITLE Petroleum Engineer DATE July 9, 1985
(This space for Federal or State office use)

PERMIT NO. _____

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE 7/29/85

BY: John R. Boyer

*See Instructions On Reverse Side
WELL SPACING: Unit Well A-3

Application for Permit to Drill, Deepen, or Plug Back

18-4

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 18-T17S-R 25E

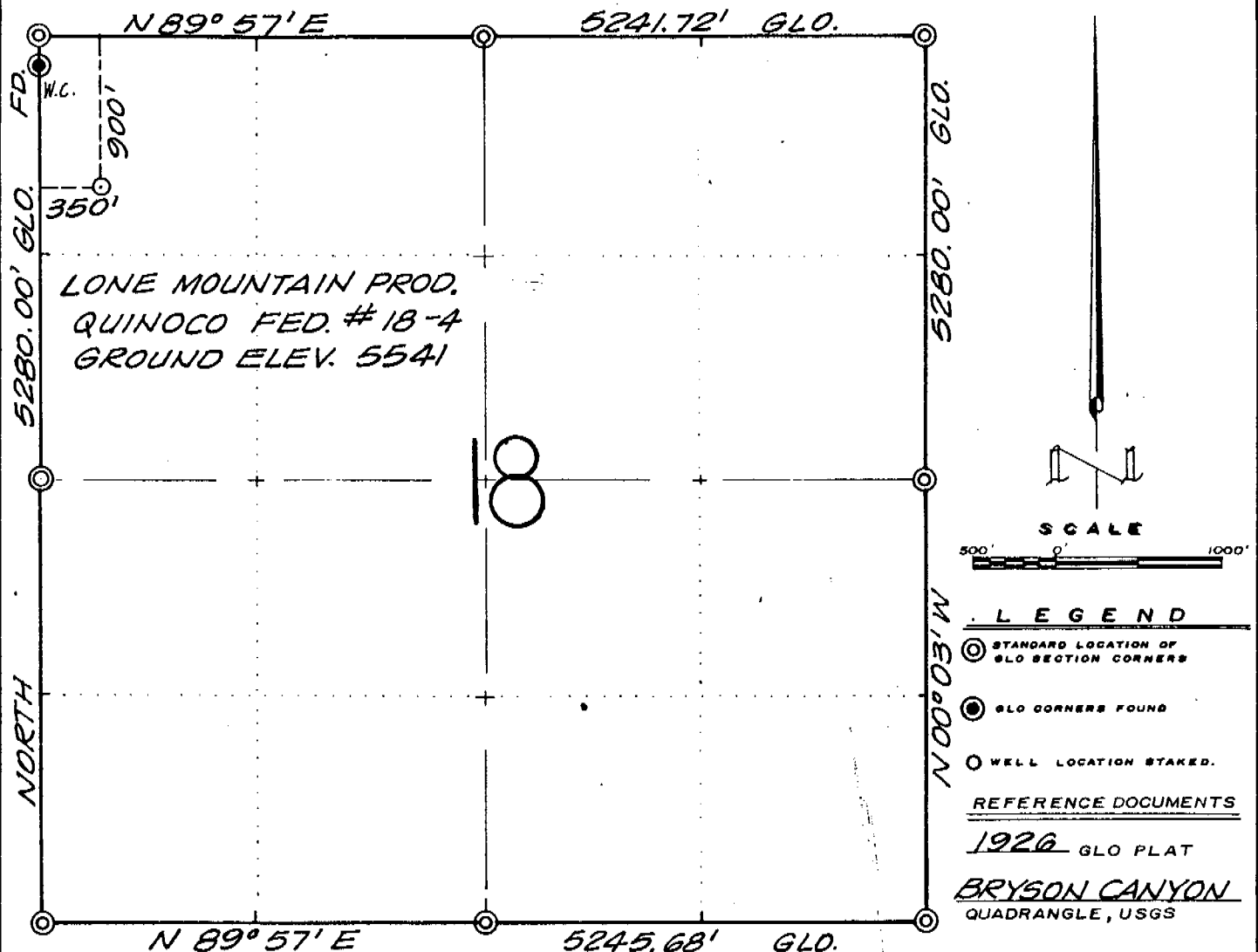
Grand County, Utah

Lease U-38033

Page 2

8. The logging program will consist of a DIL log from TD to base of surface casing, and GR-FDC-CNL logs from TD to above the Frontier. No cores or DST's are planned.
9. No abnormal pressures or temperatures are anticipated. No poisonous gas is anticipated.
10. Anticipated spud date is September 11, 1985. Completion operations should commence within 30 days of rig release.
11. Survey plats are attached.
12. The gas is dedicated to Southwest Gas Company.
13. The spacing unit will be the N $\frac{1}{2}$ of Section 18.
14. Designation of Operator forms from Quinoco will be sent to the BLM in Moab, Utah.
15. The well will be drilled under Quinoco's bond.

SEC. 18, T. 17 S., R. 25 OF THE SLB & M.



THIS WELL LOCATION PLAT WAS PREPARED FOR LONE MOUNTAIN PROD.
TO LOCATE THE QUINOCO FED. #18-4, 900' F.W. L. &
350' F.W. L. IN THE NW 1/4 NW 1/4, OF SECTION 18, T. 17 S., R. 25
OF THE SLB & M. GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE


I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN
THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS
SURVEY WAS MADE UNDER MY DIRECT SUPERVISION
AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D. Becker

SURVEYED	5-22-85	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO 81501 (303) 245-7221	SCALE 1" = 1000'
DRAWN	6-1-85			JOB NO.
CHECKED	6-1-85			SHEET OF

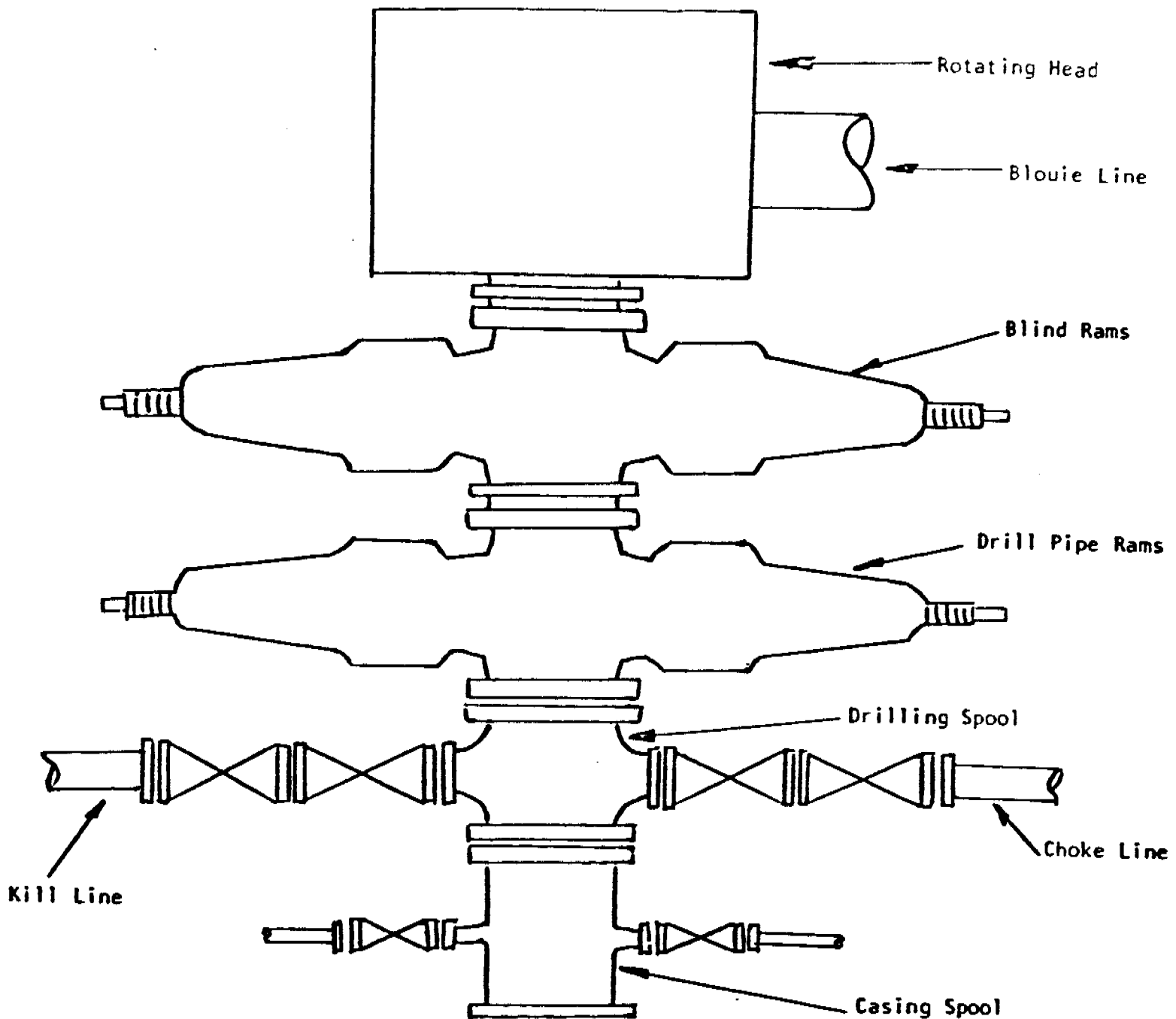
Lone Mountain Production Company
Federal No. 18-4
WELL CONTROL PLAN

1. Surface Casing: 8-5/8" O.D., 24#/ft., Grade H-40, ST&C, set at 300' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 8-5/8" x 8"-900 Series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: None
4. Blowout Preventor: An 8" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 1000 psi prior to drilling shoe joint on surface casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 1200 psi at 3883 or a gradient of .309 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.


James G. Routson
Petroleum Engineer

Air drilled wells using 900 series wellhead equipment.

Interval from 300' to total depth.



SURFACE USE PROGRAM

Lone Mountain Production Company
Federal #18-4
NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec.18-T17S-R25E, S.L.M.
Grand County, Utah

1. Existing Roads

See Vicinity Map, Topo and Access Map and Plat #1. This proposed well is located approximately 20 air miles northwest of Mack, Colorado. It is reached by going west of Mack on Old Highway 6&50 3.5 miles west of the Colorado-Utah border. Turn right and go 5.6 miles to the "T" intersection. Turn right and go 2.7 miles north to the "Y", turn right and go 1.3 miles; turn left (main road) and go 4.0 miles up San Arroyo Canyon. All of the existing roads use for access are county roads. Lone Mountain will share maintenance on those graver/dirt roads with Grand County and the other oil and gas operators in the area. The existing roads are colored green on the reference map.

2. Access Roads to be Constructed and Reconstructed

The 100' of new access road will be incorporated into the Northwest end of the well pad. The width will be 20 feet.

3. Location of Existing Wells

See Map #3. There are 3 producing wells and 2 abandoned wells within 1 mile of the proposed location.

4. Location of Production Facilities

a) On Well Pad. See Plat #4. (Paint everything dark green)

5. Location and Type of Water Supply

The water source for this well is West Salt Creek. The pickup point is on Old Highway 6&50 about 2.5 miles west of Mack, Colorado. The water will be hauled over the well access road.

6. Source of Construction Materials

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside material will be brought in.

7. Methods for Handling Waste Disposal

Cuttings will be buried in the reserve pit at clean up. Garbage and other waste material will be contained in a trash cage. This cage will be dumped at an approved sanitary land fill. Human waste will be disposed of in chemically treated sanitary pits.

Drilling fluids will be contained in the reserve pit and left to evaporate. Any fluids produced during testing operations will be collected in a test tank. If a test tank is not available, the

7. (continued)

fluids will be contained in the reserve pit. Any spills of oil, gas, salt water or noxious fluid will be cleaned up and removed.

If the well is productive, produced water will be disposed of on site for 30 days only, or 90 days with the permission of the District Manager. After that time, application will be made for approval of permanent disposal method in compliance with old MMS Order NTL-2B, and the rules and regulations of the State of Utah.

8. Ancillary Facilities:

No ancillary facilities are planned.

9. Wellsite Layout

See Plat #2 - Pit and Pad Layout

See Plat #2A - Cross Sections of Pit and Pad

See Plat #3 - Rig Layout

The location will be constructed large enough to accomodate the drilling rig and associated equipment with allowance made for future completion and fracturing equipment.

The location construction will begin by stripping and stockpiling all available (4-6") topsoil. The stockpile will be along the north uphill edge of the location.

The reserve pit will be constructed along the north side of the well pad. The pit will be fenced on three sides during drilling and closed on the fourth side at rig release. The fence will be maintained through completion and while the pit area is drying.

10. Plans for Reclamation of the Surface

If the well is productive, the reserve pit will be allowed to dry and then backfilled. All of the area not necessary for production will be resloped, covered with available topsoil and revegetated using a seed formula supplied by the BLM.

If the well is abandoned, the entire area of disturbance will be returned to a reasonable contour approximating the topography of the surrounding area. The topsoil will be distributed over the recontoured area and revegetated using the appropriate seed formula.

Clean-up will begin after completion rig release and resloping should be completed by the Fall of 1985.

11. Surface Ownership

All lands involving new construction are Federal lands.

12. Other Information

The well site is in the bottom of San Arroyo Canyon on a bench. The vegetation is sparse and includes juniper, sagebrush, western wheatgrass, Indian rice grass and a few annual plants.

13. Lessee's or Operator's Representatives and Certification

James G. Routson
Lone Mountain Production Co.
P.O. Box 3394
Billings, Montana 59103
Office Phone: 406-245-5077
Home Phone: 406-245-8797

Ken Currey
Field Consultant
P.O. Box 1491
Fruita, Colorado 81521
Office/Home: 303-858-3257
Mobile: 303-245-3660, Unit 5858

I hereby certify that I, or persons under my supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Lone Mountain Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

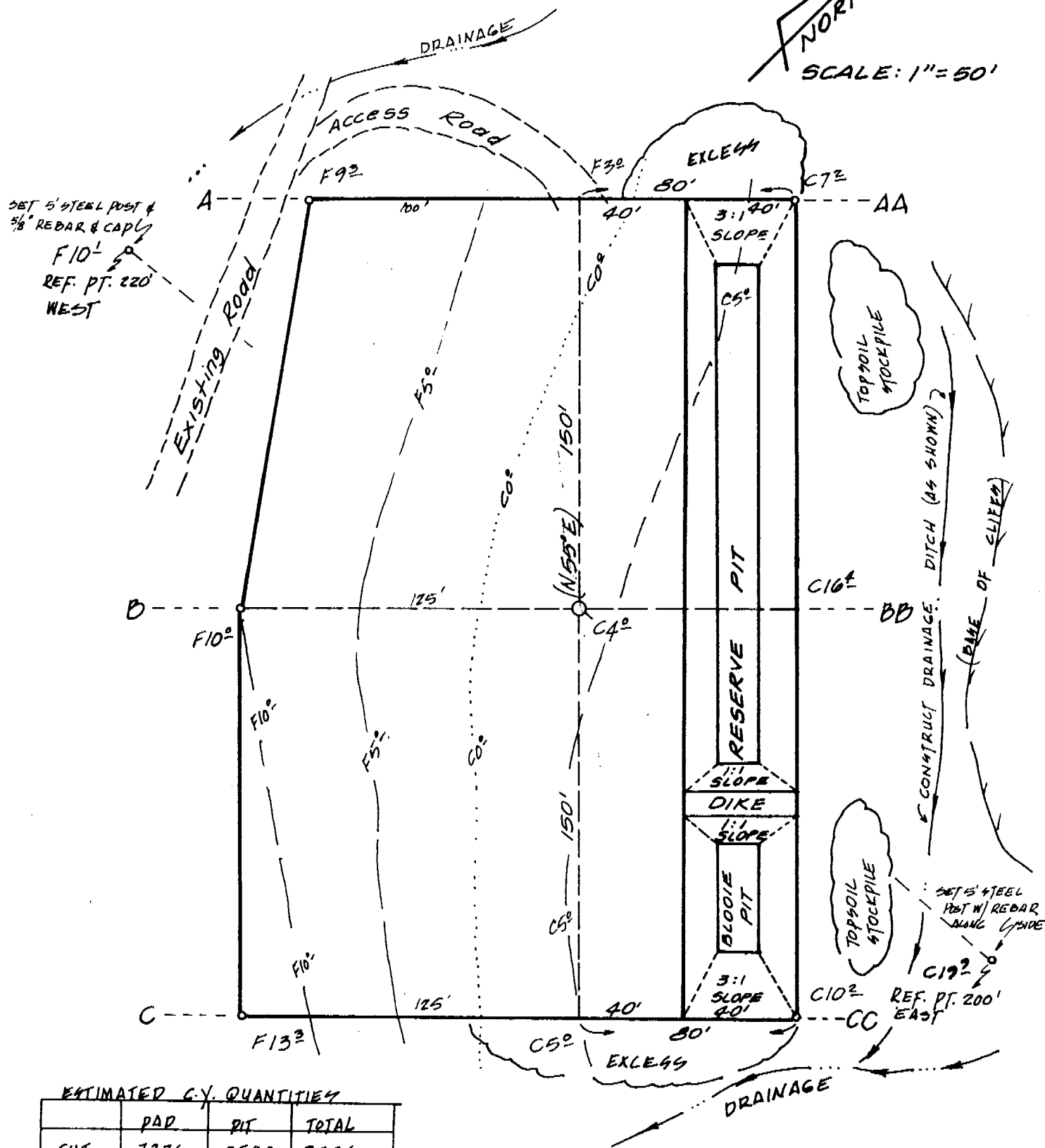
July 9, 1985
Date

James G. Routson

PLAT #
PIT # PAD LAYOUT

NORTH

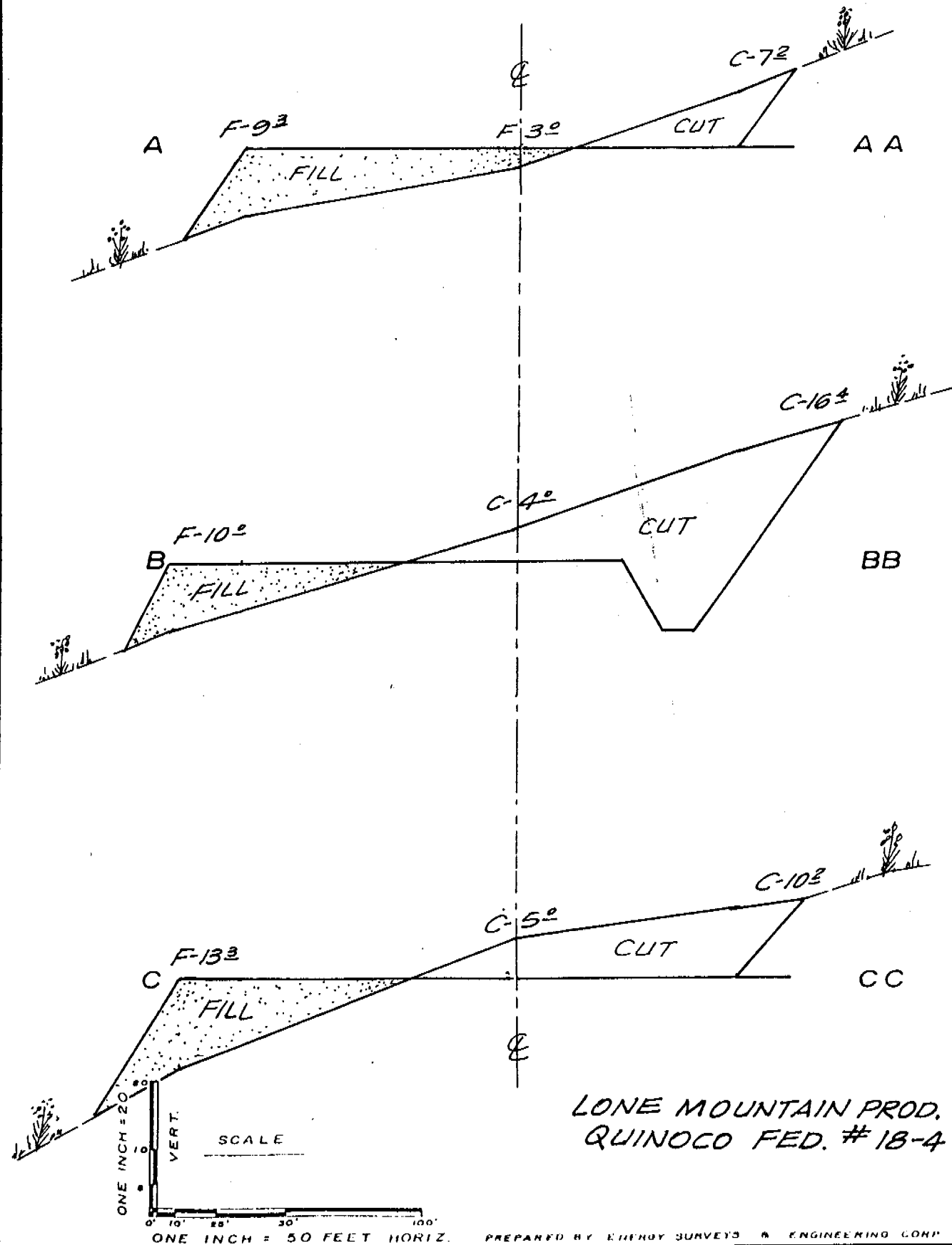
SCALE: 1"=50'



ESTIMATED G.Y. QUANTITIES			
	PAD	PIT	TOTAL
CUT	1276	2500	7776
FILL	5728	—	5728
TOP SOIL	1740	444	2184
EXCESS			1864

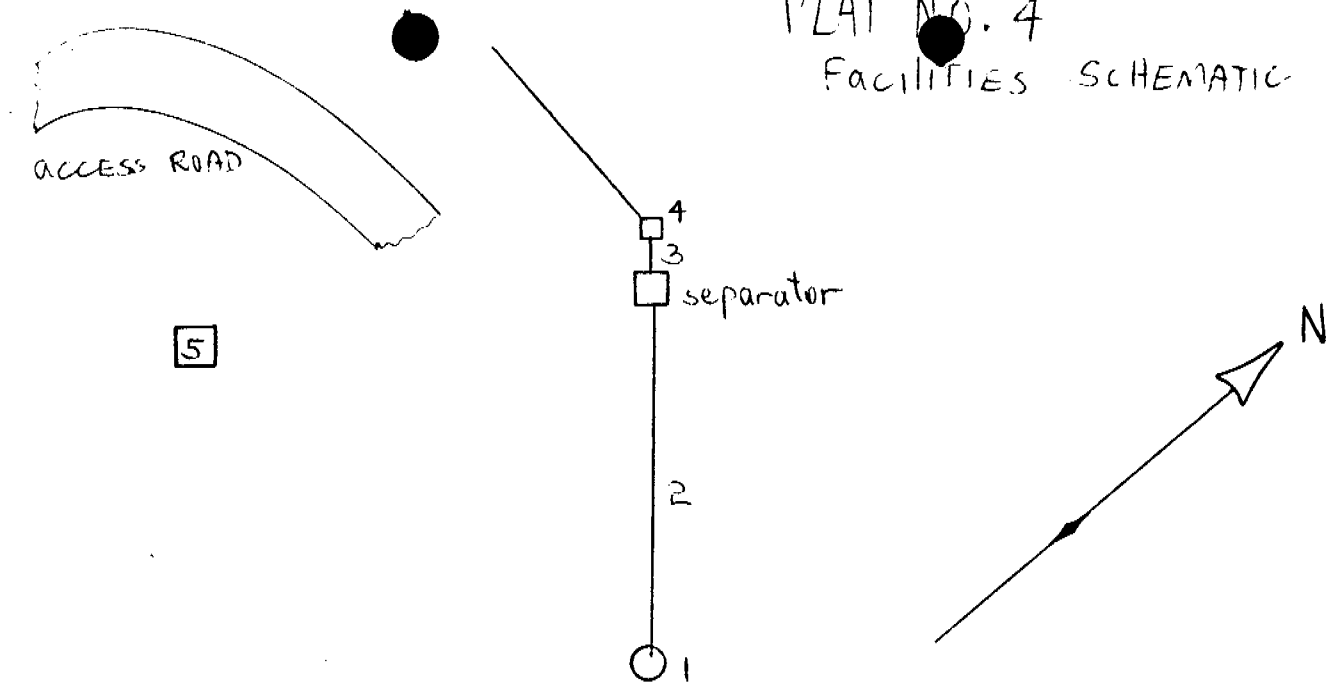
PLAT # 2A

CROSS-SECTIONS
OF PIT & PAD



PLAT NO. 4

FACILITIES SCHEMATIC



1. Wellhead will be an 8-5/8" Larkin Fig. 92 or equivalent. Tubing head will be a 4 1/2" x 6"-900 Series with two 2" 3000 psi screwed valves. Tree will be 2" screwed x 2000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 2" run, or equivalent, 1000 psi static rating, 100" of water differential rating.
5. Pit will be 10'x 10', enclosed by dikes and fenced.

San

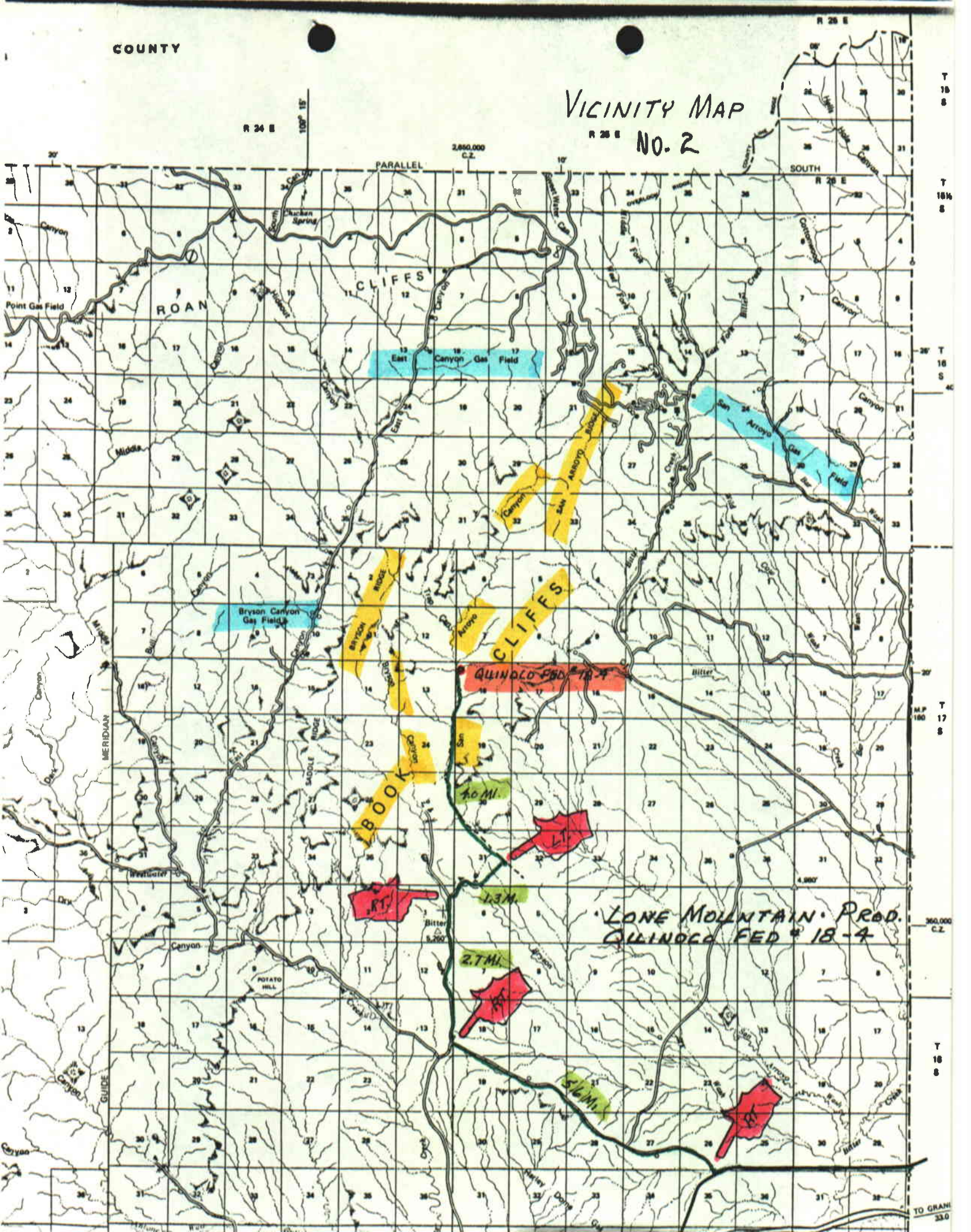
QUINOCO FED. #18-4

536
 LONE MOUNTAIN PROD.
 QUINOCO FED #18-4

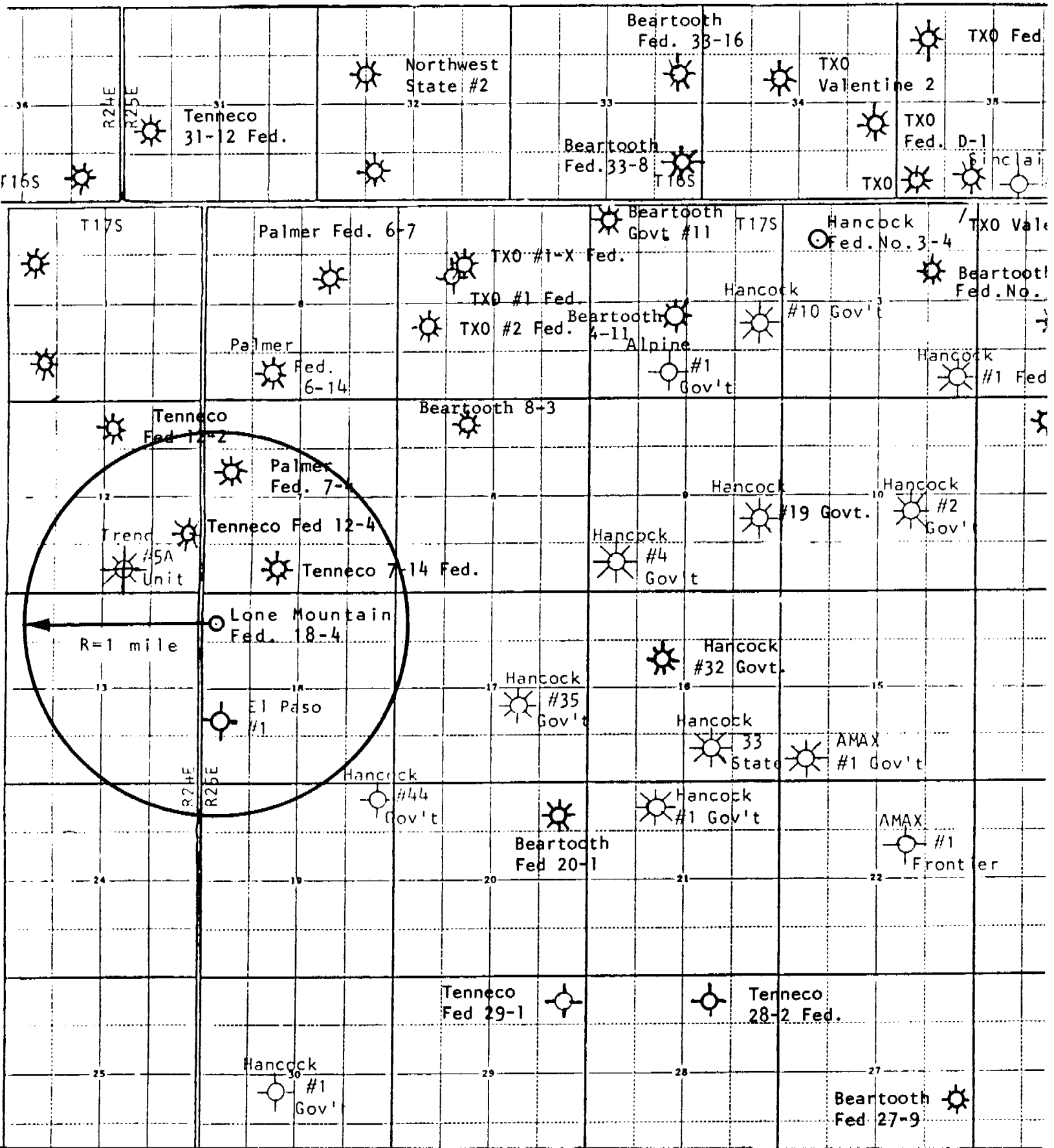
30

COUNTY

VICINITY MAP
NO. 2



Township 16, 17, 18, Range 24, 25, 26, County Grand, State Utah



072824

OPERATOR

Low Mountain Production Co.

DATE

7-16-85

WELL NAME

Quinnco Federal 18-4

SEC

NW 18

T

17S

R

25E

COUNTY

Grand

43-019-31196

API NUMBER

Lease

TYPE OF LEASE

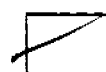
CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

Unit Well - & on PODWater - Meek, CoResignation from Burton Hancock (operator Winter Camp Unit)

APPROVAL LETTER:

SPACING:



A-3

Winter Camp
UNIT

c-3-a

CAUSE NO. & DATE



c-3-b



c-3-c

STIPULATIONS:

1- Resignation from Burton Hancock



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 29, 1985

Lone Mountain Production Company
P. O. Box 3394
Billings, Montana 59103

Gentlemen:

Re: Well No. Quinoco Federal 18-4 - NW NW Sec. 18, T. 17S, R. 25E
900' FNL, 350' FWL - Grand County, Utah

Approval to drill the above-referenced gas well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31196.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

DIVISION OF OIL
& MINING

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Lone Mountain Production Company

3. ADDRESS OF OPERATOR

P.O. Box 3394, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

350' FWL, 900' FNL

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 miles northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

350'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

3055

16. NO. OF ACRES IN LEASE

952.94

19. PROPOSED DEPTH

4500'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

317.74

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5541 GL, 5553 KB

22. APPROX. DATE WORK WILL START*

September 11, 1985

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40 STD	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55 TC	4500'	175 sacks RFC

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James L. Fenton

TITLE

Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Acting

DISTRICT MANAGER

23 AUG 1985

APPROVED BY

/s/ C. Delano Backus

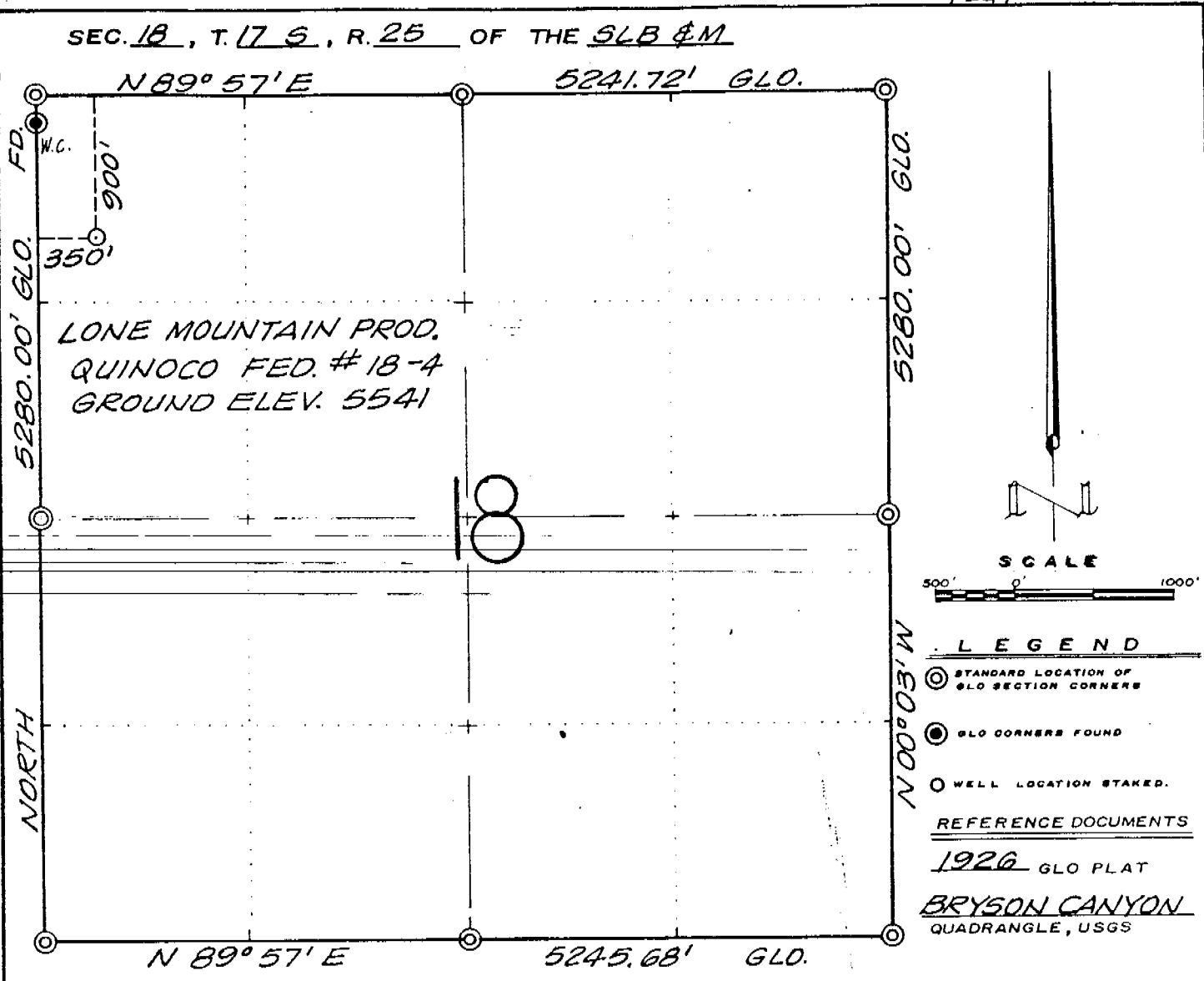
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

COPIES OF APPROVAL ATTACHED

*See Instructions On Reverse Side



THIS WELL LOCATION PLAT WAS PREPARED FOR LONE MOUNTAIN PROD.
 TO LOCATE THE QUINOCO FED. #18-4, 900' F.N L. &
350' F.W. L. IN THE NW 1/4 NW 1/4, OF SECTION 18, T. 17 S., R. 25
 OF THE SLB & M.P.M. GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN
 THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS
 SURVEY WAS MADE UNDER MY DIRECT SUPERVISION
 AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D. Becker

SURVEYED	5-22-85	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO 81501 (303) 245 - 7221	SCALE 1" = 1000'
DRAWN	6-1-85			JOB NO
CHECKED	6-1-85			SHEET OF

Lone Mountain Production Company
Well No. Wintercamp Unit Federal 18-4
Sec. 18, T. 17 S., R. 25 E.
Grand County, Utah
Lease U-38033

CONDITIONS OF APPROVAL

A. DRILLING PROGRAM

A backup source capable of closing the B.O.P.'s in case of a primary source failure will be available.

All pressure tests on the B.O.P.E. will be recorded in the driller's log.

Both casing strings will be tested to at least 1000 psi. This will be recorded in the driller's log.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: 'Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, A Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations verbal approval to bring on a replacement rig will be approved through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Office, or the appropriate surface managing agency. Upon completion of approved plugging, a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease number", "Well number", location of well by 1/4 1/4 section, township, and range.

B. SURFACE USE PROGRAM

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

~~Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.~~

Produced waste water will be confined to a pit.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The operator or his contractor will notify the Grand Resource Area at (801) 259-8193 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>		<u>lbs/acre</u>
<u>Grasses</u>		
Sporobolus cryptandrus	Sand dropseed	1
Hilaria jamesii	Galleta (Curlygrass)	1
Agropyron smithii	Western wheatgrass	1
<u>Forbs</u>		
Melilotus officinalis	Yellow sweetclover	1/2
Helianthus annuus	Common sunflower	1/2
<u>Shrubs</u>		
Eurotia lanata	Winterfat (Whitesage)	1
Atriplex canescens	Fourwing saltbush	1
		6 lbs/acre

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer Office Phone: (801)259-6111
Home Phone: _____

District Address:

82 East Dogwood, P.O. Box 970
Moab, Utah 84532

Your contact with the Grand Resource
Area Office is:

Jeff Robbins Office Phone: (801)259-8193
Home Phone: (801)259-7964

Area Office Address:

Sand Flats Road, P.O. Box 11
Moab, Utah 84532

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-019-31196

NAME OF COMPANY: Lone Mountain Production CompanyWELL NAME: Quinoco Federal 18 -4SECTION NW NW 18 TOWNSHIP 17S RANGE 25E COUNTY GrandDRILLING CONTRACTOR Carmack Well ServiceRIG # 20SPUDDED: DATE 9-24-85TIME 12:30 PMHOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Bonnie PaulTELEPHONE # (406) 245-5077DATE 9-25-85 SIGNED AS

OIL AND GAS CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES

OF THE STATE OF COLORADO

REV. 7-64

File in duplicate for Patented and Federal lands.
File in triplicate for State lands.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Lone Mountain Production Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 3394, Billings, Montana 59103</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface</p> <p>At proposed prod. zone 350' FWL, 900' FNL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-38033</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Wintercamp</p> <p>8. FARM OR LEASE NAME Federal</p> <p>9. WELL NO. 18-4</p> <p>10. FIELD AND POOL, OR WILDCAT Undesignated</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW$\frac{1}{4}$ NW$\frac{1}{4}$ 18-17S 25 E</p>	
<p>14. PERMIT NO. API #43 019 31196</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5553 KB</p>	<p>12. COUNTY Grand</p>	<p>13. STATE Utah</p>

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SEP 27 1985

DIVISION OF OIL
GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT ☐(Other) Spud ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Date of work 9/24/85

Spudded 12 $\frac{1}{4}$ " hole at 12:30 P.M. 9/24/85. Carmack Well Service Rig No. 20.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

President

DATE

9/25/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

2

U-38033

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OCT 07 1985

DIVISION OF OIL GAS & MINING

1. NAME OF OPERATOR: Lone Mountain Production Company

2. ADDRESS OF OPERATOR: P.O. Box 3394, Billings, Montana

3. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
350' FWL, 900' FNL

4. PERMIT NO.: API #43 019 31196

5. ELEVATIONS (Show whether DF, RT, GR, etc.): 5541 GL, 5545 KB

6. UNIT AGREEMENT NAME: Wintercamp

7. FARM OR LEASE NAME: Federal

8. WELL NO.: 18-4

9. FIELD AND POOL, OR WILDCAT: Undesignated

10. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW 1/4 NW 1/4 Sec. 18-T17S-R25E

11. COUNTY OR PARISH: Grand

12. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other)	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

KB corrected from previous reports.
Drilled 12 1/4" hole to 330'. Ran 8-5/8", 24#, J-55 casing to 329'. Cemented with 175 sx Class H, 3% CaCl₂. Good cement returns to surface.

Drilled 7-7/8" hole to 4507'. Ran 4 1/2", 10.5#, J-55 casing to 4169'. PBTD 4131'. Cemented with 175 sx Thixotropic cement. Rig released 2:00 P.M. 10/1/85.

Will move in completion rig about 10/15/85

Log Tops:	Dakota Silt	3815
	Dakota Sand	3904
	Morrison	4030
	Salt Wash	4364

18. I hereby certify that the foregoing is true and correct

SIGNED James D. Routson TITLE Petroleum Engineer DATE 10/2/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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OCT 07 1985

DIVISION OF OIL
GAS & MINING

LONE MOUNTAIN PRODUCTION COMPANY

FEDERAL NO. 18-4

NW/NW SECTION 18, T17S, R25E

GRAND COUNTY, UTAH

GEOLOGIC REPORT

BY

BILL NAGEL

ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

WELL SUMMARY

OPERATOR: LONE MOUNTAIN PRODUCTION COMPANY

WELL NAME: FEDERAL NO. 18-4

LOCATION: NW/NW SECTION 18, T17S, R25E
FOOTAGE: 900' FNL - 350' FWL

COUNTY: GRAND

STATE: UTAH

AREA: SOUTH SAN ARROYO PROSPECT

ELEVATION: GL 5541' - KB 5545'

SPUD DATE: 9/24/85

COMPLETION DATE: 9/30/85

DRILLING ENGINEER: GLENN ROSS

WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
GEOLOGIST: BILL NAGEL

DRILLING CONTRACTOR: CARMACK WELL SERVICE, INC.
RIG: RIG #20

TOOL PUSHER: CHRIS CARMACK

HOLE SIZE: 12 $\frac{1}{4}$ " TO 330'; 7 7/8" TO T.D.

CASING RECORD: 8 5/8" TO 329'

AIR COMPRESSORS: FRONTIER AIR DRILLING COMPANY

ELECTRIC LOGGING: SCHLUMBERGER
TYPE OF LOGS RUN: DIL-GR-SP, GR-FDC-CNL

OBJECTIVE: DAKOTA, MORRISON

TOTAL DEPTH: 4507'

STATUS: RUN 4 $\frac{1}{2}$ " PRODUCTION CASING

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
NW/NW SECTION 18, T17S, R25E
GRAND COUNTY, UTAH

WELL CHRONOLOGY			
1985 DATE	MDNT DEPTH	FTG/ DAY	DAILY OPERATIONS
9/24	-0-	120	DRLG MOUSEHOLE - DRLG SURFACE - WORK HOLE - MIX MUD & DRL AHEAD
9/25	120	210	DRLG - POOH & RUN CSG - CMT CSG - WOC - DIG CELLAR
9/26	330	385	NIPPLE UP - RUN BLOOIE LINE - PRESS TEST - WAIT ON FLANGE - PRESS TEST BOP - DRLG CMT - DRLG AHEAD
9/27	715	1678	DRLG AHEAD
9/28	2393	590	WO SWIVEL - DRLG AHEAD
9/29	2983	1524	DRLG - CHG OUT SWIVEL - DRLG - REPAIR HYDRO HOSE - DRLG - MIST UP - DRLG AHEAD
9/30	4507	-0-	CIRC - MIX MUD - MUD UP - CIRC - SHORT TRIP - CIRC- POOH - RUN E-LOGS

BIT RECORD

WELL NAME: FEDERAL 18-4 ELEVATION: GL 5541' - KB 5545'
CO. NAME: LONE MOUNTAIN PROD. CO. SECTION: S18-T17S-R25E
CONTRACTOR: CARMACK WELL SERV RIG# 20 CO. & STATE: GRAND, UTAH
SPUD DATE: 9/24/85 T.D. DATE: 9/30/8t

[illegible]

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
NWNW SECTION 18, T17S, R25E
GRAND COUNTY, UTAH

SAMPLE DESCRIPTIONS

2900-2940	100%	SH dkgy frm blk-pty
2940-2970	100%	SH AA w/occ slsdy & slty
2970-3000	100%	SH dkgy frm blk-pty /occ slsly
3000-3030	100%	SH dkgy frm blk-pty
3030-3090	100%	SH dkgy frm blk-pty /occ slsly
3090-3240	100%	SH dkgy frm blk-pty
3240-3270	100%	SH dkgy frm blk-pty /occ slsly
3270-3310	100%	SH AA
	TR	BENT wh sft pty
3310-3400	100%	SH dkgy frm blk-pty /occ slsly
3400-3460	100%	SH dkgy frm blk-pty /occ slsly & sndy
3460-3490	100%	SH dkgy frm blk-pty /occ slsly
	TR	CALC FRAG clr
3490-3535	100%	SH dkgy frm blk-pty
3535-3550	100%	SH AA
	TR	CALC FRAG clr
3550-3595	100%	SH dkgy frm blk
3595-3610	100%	SH dkgy-blk frm blk-pty
3610-3625	100%	SH blk frm blk-pty
	TR	PYR
3625-3640	100%	SH AA
	TR	CALC FRAG clr
3640-3655	100%	SH AA
3655-3685	100%	SH blk frm blk-pty
3685-3715	100%	SH blk-dkgy frm blk-pty
3715-3730	100%	SH dkgy frm blk-pty
	TR	BENT wh sft pty
3730-3745	90%	SH AA
	10%	SS clr vfg mcmt msrt sbang-sbrd slarg
3745-3760	70%	SH dkgy frm blk-pty
	30%	SS ltgy vfg mcmt msrt sbang-sbrd glac incl sl arg
3760-3775	60%	SH AA
	40%	SS lt-mgy vfg mcmt msrt sbang-sbrd glac & pyr incl
3775-3790	80%	SH dkgy frm blk-pty slsdy
	20%	SS AA
3790-3805	80%	SH AA
	20%	SS clr vfg-fg mcmt msrt sbang-sbrd slarg
3805-3820	60%	SH AA
	40%	SS clr mgy vfg mcmt msrt sbang-sbrd mod-arg
3820-3835	70%	SH dkgy frm blk-pty /occ sdy
	30%	SS AA
3835-3850	70%	SH AA
	30%	SS mgy vfg mcmt msrt sbang-sbrd arg
	TR	BENT wh sft pty
3850-3865	100%	SH dkgy frm blk-pty /occ sdy
	ABNT	BENT wh sft pty
3865-3880	80%	SH AA
	20%	SS clr vfg uncons msrt sbang
	TR	BENT wh sft pty
3920-3935	80%	SH AA
	20%	SS clr-ltgy vfg p-mcmt msrt sbang-sbrd
	ABNT	BENT wh-ltbrn sft pty

LONE MOUNTAIN PROD. CO.
FEDERAL NO. 18-4
SAMPLE DESC. CONTINUED

3935-3950	100%	SS ltgy vfg m-wcmt m-wsrt sbang-sbrd slcalc
3950-3985	100%	SS clr f-vfg unconc m-wsrt sbrd
3985-4000	100%	SH dkgy-blk frm blkyl-pty
4000-4015	70%	SH AA
	30%	SS AA
4015-4045		NO RETURNS (HOLE DAMP)
4045-4060	50%	SH dkgy occ ltgy frm-hd blkyl-pty
	50%	SS ltgy f-vfg wcmt msrt sbang-sbrd sil-cmt occ arg
4060-4075	70%	SH AA
	30%	SS ltgy-clr vfg wcmt msrt sbrd sil-cmt arg
4075-4090	80%	SH ltgy red ltgn frm-hd blkyl-pty occ slsdy
	20%	SS AA
4090-4105	80%	SH AA
	20%	SS clr vfg wcmt m-wsrt sbang-sbrd sil-cmt
4105-4120	100%	SH AA
4120-4135	80%	SH AA
	20%	SS wh vfg wcmt m-wsrt sbang-sbrd sil-cmt cly fl
4135-4150	80%	SH ltgy occ red-mar frm-hd blkyl-pty occ sdy
	20%	SS AA
4150-4165	80%	SH AA /occ purp
	20%	SS wh-ltgy vfg wcmt m-wsrt sbrd sil-cmt slarg
4165-4195	100%	SH ltgy-ltgn red purp hd-frm blkyl-pty
4195-4210	90%	SH ltgy-ltgn red hd-frm blkyl-pty
	10%	SS clr-wh vfg wcmt msrt sbrd occ SH INCL
4210-4225	90%	SH ltgy red ltgn hd-frm blkyl-pty
	10%	SS AA
4225-4240	80%	SH AA
	20%	SS clr-wh f-vfg wcmt sil-cmt msrt sbrd occ cly fl
4240-4255	90%	SH ltgy-ltgn red pnk sft-hd blkyl-pty occ slty
	10%	SS AA
	TR	CHT FRAG gn hd
4255-4270	100%	SH red ltgy-ltgn frm-hd blkyl-pty occ slty
4270-4385	90%	SH AA
	10%	SS pnk vfg wcmt m-wsrt sbrd sil-cmt
4285-4300	100%	SH red mar purp ltgy-ltgn frm-hd blkyl-pty occ slty
4300-4315	90%	SH AA
	10%	SS wh-clr vfg wcmt sil-cmt msrt sbrd
4315-4345	100%	SH red frm blkyl-pty occ slty
4345-4360	90%	SH AA
	10%	SS clr vfg wcmt sil-cmt sbang-sbrd
4360-4375	80%	SH red mar purp frm-hd blkyl-pty occ slty
	20%	SS clr-wh vfg wcmt sil-cmt msrt sbang-sbrd
4375-4390	70%	SH AA
	30%	SS clr-wh vfg wcmt sil-cmt msrt sbang-sbrd slarg
4390-4405	60%	SH red ltgy purp frm-hd blkyl-pty slsly
	40%	SS ltgy vfg wcmt silcmt wsrt sbrd occ slarg
4405-4420	60%	SS clr-ltgy ltgn vfg wcmt wsrt sbrd slty
	40%	SH AA
4420-4435	60%	SS AA
	40%	SH red ltgy purp ltgn frm blkyl-pty
4435-4450	50%	SS ltgy-clr vfg m-wcmt sil cmt m-wsrt sbrd-sbagn
	50%	SH ltgy-ltgn frm-dh blkyl-pty
4450-4465	70%	SH red ltgy-ltgn frm-hd blkyl-pty slsly
	30%	SS AA
4465-4480	70%	SH AA
	30%	SS clr vfg m-wcmt msrt sbang-sbrd

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
SAMPLE DESCRIPTION CONTINUED

4480-4495	70%	SH red ltgy-ltgn frm-hd blk-y-plty slsly
	30%	SS AA
4495-4507	80%	SH AA
	20%	SS ltgy-clr vfg m-wcmt msrt sbang-sbrd

LONE MOUNTAIN PRODUCTION COMPANY
FEDERAL NO. 18-4
NW/NW SECTION 18, T17S, R25E
GRAND COUNTY, UTAH

FORMATION TOPS			
FORMATION	SAMPLE	E-LOG	DATUM
MANCOS	SURFACE		
FRONTIER	3570'	3548'	+1997
DAKOTA SILT	3842'	3825'	+1720
DAKOTA	3906'	3890'	+1655
MORRISON	4080'	4032'	+1513
SALT WASH	4385'	4363'	+1182

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

Lone Mountain Production Company's Federal No. 18-4 well was a Dakota and Morrison test. The well was located in the NW/NW Section 18, T17S, R25E of Grand County, Utah. Spudded in the lower Mesaverde Formation on September 24, 1985, the well was drilled to a total depth of 4507' in the Salt Wash Member of the Morrison Formation on September 30, 1985. Production casing was run to the total depth.

MANCOS FM (SURFACE - 3548')

The Mancos Formation consisted of dark gray, firm, blocky to platy shale. This shale was occasionally silty and sandy with traces of calcite crystals.

There were no gas shows in the lower Mancos Formation. Background gas was 2 units and connection gas recorded 90 to 180 units.

FRONTIER FM (3548' - 3828')

The Frontier Formation was predominantly shale with beds of sandstone near the base. The shale was black, dark gray, firm, blocky to platy and was occasionally silty with traces of bentonite. At 3510' the Frontier Shale began changing to black from a dark gray. The sandstone was light to medium gray, clear, very fine grained, medium cemented, medium sorted, subrounded to sub-angular and argillaceous with occasional glauconite inclusions.

Two gas shows noted in the Frontier Shale occurred at 3623'-3630' of 38 units and at 3765'-3771' of 10 units. Background gas ranged between 2-10 units and connection gas was noted from 90-220 units.

DAKOTA SILT (3825' - 3890')

The Dakota Silt was composed of interbedded sandstone and shale. The sandstone was medium gray, clear, very fine grained, unconsolidated-medium cemented, medium sorted, subangular-subrounded and slightly argillaceous. Shale was dark gray to black, firm and blocky to platy.

There were no gas shows noted in the Dakota Silt. Background gas was 2 units and connection gas was 150 units.

DAKOTA FM (3890' - 4032')

The Dakota Formation contained three sandstone beds with shale in-between the beds. The top sandstone bed at 3904'-3919' was a clear, very fine grained, unconsolidated, medium sorted and subangular sandstone. A gas show of 150 units was noted during the drilling of this sandstone. Although there was no flare during this gas show, the next connection gas of 450 units did flare. Electric logs showed this sandstone to have very good crossover with an average of 10% porosity.

The second sandstone of the Dakota was at 3940'-3973'. This sandstone was clear, light gray, very fine to fine grained, unconsolidate, medium to well sorted and subrounded to subangular. During the drilling of this sand interval, the gas increased to 230 units with no flare. Connection gas increased to 700 units with flaring continuing until T. D. Electric logs showed this zone to have very good crossover with an average of 11% porosity.

The last Dakota sandstone bed occurred at 3998'-4019'. This sandstone was clear, very fine to fine grained, unconsolidated, medium to well sorted and subrounded. The hole became wet during the drilling of this zone and it became necessary to start drilling with air mist. There were no gas shows noted in this sandstone interval. Electric logs showed the sandstone bed to be wet.

MORRISON FM (4032' - T.D.)

The upper member of the Morrison, the Brushy Basin (4032'-4363'), was composed primarily of shale with occasional sandstone beds. The shale was light gray, light green, red, purple, maroon, soft to hard, platy to blocky and occasionally sandy. The sandstone was clear, white, pink, very fine grained, well cemented, medium to well cemented and subrounded to subangular. There were no gas shows noted in the Brush Basin Member. Background gas was 135-150 units and connection gas was 400-600 units.

The lower member of the Morrison, the Salt Wash (4363' - T.D.), contained interbedded sandstone and shale. The sandstone was light gray, and clear, white, very fine grained, medium to well cemented, medium to well sorted and subangular to subrounded. A gas increase of 45 units was noted in the Salt Wash at 4445'-4455'. Background gas was 135-180 units and connection gas was 420-500 units.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED

OCT 07 1985

DIVISION OF OIL
& MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number _____ Federal No. 18-4

Operator Lone Mountain Production Co. Address P.O. Box 3394, Billings, MT 59103

Contractor Carmack Well Service Address 2154 Hwy 6450, Grand Junction, CO 81505

Location NW 1/4 NW 1/4 Sec. 18 T. 17S R. 25E County Grand

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	NONE			
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

<u>Formation Tops</u>	Dakota Silt	3815
	Dakota Sand	3904
	Morrison	4030
<u>Remarks</u>	Sat'l Wash	4364

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

RECEIVED

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐ OCT 30 1985

2. NAME OF OPERATOR
LONE MOUNTAIN PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 350' FWL, 900' FNL

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO. 43-019-31196
DATE ISSUED 7/29/85

15. DATE SPUDDED 9/24/85
16. DATE T.D. REACHED 9/30/85
17. DATE COMPL. (Ready to prod.) 10/23/85
18. ELEVATIONS (DF, RNB, RT, GR, ETC.)* 5541 GL, 5545 KB

20. TOTAL DEPTH, MD & TVD 4507
21. PLUG. BACK T.D., MD & TVD 4131
22. IF MULTIPLE COMPL., HOW MANY*
23. INTERVALS DRILLED BY ☒ ROTARY TOOLS 0-TD ☐ CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Dakota Sandstone 3904-3920, 3940-3972

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-FDC-CNL, SP-GR-DIL, GR-CBL-VDL

11. SEC., T. R., M., OR BLOCK AND SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec.18-T17S-R25E

12. COUNTY OR PARISH Grand
13. STATE Utah

10. FIELD AND POOL, OR WILDCAT
Undesignated

9. WELL NO. 18-4

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

18-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T. R., M., OR BLOCK AND SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec.18-T17S-R25E

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	329	12 $\frac{1}{4}$	175 sx. class H(to surface)	None
4 $\frac{1}{2}$ "	10.5#	4169	7-7/8	175 sx. thixotropic (to 3460)	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					1 $\frac{1}{2}$ "	4008 KB	None

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
1-.31" diameter hole each at 3909, 3912, 3947, 3952, 3962, 3967; 6 holes total.		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		3909-3967	500 gallons 15% HCl
		3909-3967	Foam fractured with 83,920 gallons 75 quality foam; 20,000# 100 mesh sand, 80,000# 20-40 sand.

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
10/12/85		Flowing				Shut-In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/23/85	26	1 $\frac{1}{2}$ "	<input checked="" type="checkbox"/>	0	1484	0	--
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
230 psig	450 psig	<input checked="" type="checkbox"/>	0	1370	0	--	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented

TEST WITNESSED BY
Dave Terrell

35. LIST OF ATTACHMENTS
None; logs & Geologists reports have been sent directly by the service companies

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED James R. Ranton TITLE Petroleum Engineer DATE 10/25/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Dakota	3904	3920	Tight gas	Mancos	Surface	same
Dakota	3940	3972	Tight gas	Frontier	3548	same
Dakota	3998	4030	Tight-damp with water	Dakota Silt	3815	same
				Dakota Sand	3904	same
				Morrison	4030	same
				Salt Wash	4364	same
				(Morrison)		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY	
3. ADDRESS OF OPERATOR P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103	
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations. See also space 17 below.) At surface 350' FWL, 900' FNL, Section 18	
14. PERMIT NO. 43-019-31196	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5545 KB

RECEIVED

NOV 04 1985

DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO. U-38033	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME Winter Camp	
8. FARM OR LEASE NAME Federal	
9. WELL NO. 18-4	
10. FIELD AND POOL, OR WILDCAT Undesignated	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E	
12. COUNTY OR PARISH Grand	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	Status Report	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in, waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED James D. Ponton

TITLE Petroleum Engineer

DATE 10/31/85

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-38033

Communitization Agreement No. _____

Field Name UndesignatedUnit Name NoneParticipating Area None (spaced area is N $\frac{1}{2}$ Section 18)County Grand State UtahOperator Lone Mountain Production Company☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September, 19 85

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & $\frac{1}{4}$ of $\frac{1}{4}$	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-4	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 1	17S	25E	DRG	0	--	---	---	---

RECEIVED

NOV 04 1985

DIVISION OF OIL
GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: Bonnie M. Paul Address: P.O. Box 3394, Billings, MT 59103Title: Office ManagerPage 1 of 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-38033
Communitization Agreement No. _____
Field Name Undesignated
Unit Name None
Participating Area None (spaced area is N $\frac{1}{2}$ Section 18)
County Grand State Utah
Operator Lone Mountain Production Company

☒ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September, 1985

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & $\frac{1}{4}$ of $\frac{1}{4}$	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-4	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18	17S	25E	DRG	0				

RECEIVED

NOV 06 1985

DIVISION OF OIL
GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX
Authorized Signature: <u>Bonnie Paul</u>	Address: <u>P.O. Box 3394, Billings, MT 59103</u>		
Title: <u>Office Manager</u>	Page <u>1</u> of <u>1</u>		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-38033
Communitization Agreement No. _____
Field Name Undesignated
Unit Name None
Participating Area None (spaced area is N $\frac{1}{2}$ Section 18)
County Grand State Utah
Operator Lone Mountain Production Company
☒ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 1985

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & $\frac{1}{4}$ of $\frac{1}{4}$	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-4	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18	17S	25E	GSI	0				

RECEIVED

NOV 06 1985

DIVISION OF OIL
GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: Bonnie Paul Address: P.O. Box 3394, Billings, MT 59103
Title: Office Manager Page 1 of 1

LONE MOUNTAIN PRODUCTION COMPANY

P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103-3394
(406) 245-5077

RECEIVED

NOV 07 1985

**DIVISION OF OIL
& GAS & MINING**

November 4, 1985

Division of Oil, Gas, & Mining
4241 State Office Bldg.
Salt Lake City, UT 84114

Re: Federal No. 18-4 Well
Lease No. U-38033
Winter Camp Unit
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 18-T17S-R25E
Grand County, UT

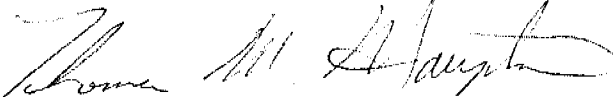
Gentlemen:

The above captioned well is a "tight hole". Please place
it on "confidential" status.

Thank you.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY



Thomas M. Hauptman

TMH:bp

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-01
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	DEC 05 1985
2. NAME OF OPERATOR	
3. ADDRESS OF OPERATOR	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 350' FWL, 900' FNL, Section 18	DIVISION OF OIL & GAS MINING
14. PERMIT NO. 43-019-31196	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5545 KB

5. LEASE DESIGNATION AND SERIAL NO. U-38033	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME Winter Camp	
8. FARM OR LEASE NAME Federal	
9. WELL NO. 18-4	
10. FIELD AND POOL, OR WILDCAT Undesignated	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E	
12. COUNTY OR PARISH Grand	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANE	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Status Report	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in--Waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED James G. Routson
(This space for Federal or State office use)

TITLE Petroleum Engineer

DATE 12/2/85

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-38033
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103		7. UNIT AGREEMENT NAME Winter Camp
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 350' FWL, 900' FNL, Section 18		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-019-31196		9. WELL NO. 18-4
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5541 GL, 5545 KB		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW¼ NW¼ Sec. 18-T17S-R25E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Status Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Shut in-- Waiting on pipeline.

RECEIVED

JAN 06 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson
James G. Routson

TITLE

Petroleum Engineer

DATE

1/3/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI
(Other instructions
reverse side)

080611

Budget Bureau No. 1001-013
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

18-4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E

14. PERMIT NO.

43-019-31196

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5541 GL, 5545 KB

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in-- Waiting on pipeline.

RECEIVED

AUG 04 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson
James G. Routson

TITLE

Petroleum Engineer

DATE

7/31/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

080611

Budget Budget No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
LONE MOUNTAIN PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
350' FWL, 900' FNL, Section 18

7. UNIT AGREEMENT NAME
Winter Camp

8. FARM OR LEASE NAME
Federal

9. WELL NO.
18-4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E

14. PERMIT NO.
43-019-31196

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5541 GL, 5545 KB

12. COUNTY OR PARISH
Grand

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
(Other) ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
ABANDON* ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) Status Report ☒
REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Shut in-- Waiting on pipeline.

RECEIVED

AUG 04 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED James G. Routson

TITLE Petroleum Engineer

DATE 7/31/86

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

091519

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

U-38033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR
LONE MOUNTAIN PRODUCTION COMPANY
3. ADDRESS OF OPERATOR
P.O. Box 3394, 408 Petroleum Building, Billings, MT 59103
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
350' FWL, 900' FNL, Section 18

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

18-4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR PLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 18-T17S-R25E

14. PERMIT NO.

43-019-31196

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5541 GL, 5545 KB

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) Notice of first delivery ☒

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First delivered to Northwest Pipeline 9/11/86 at 11:00 A.M. Verbal notification phoned to Steve Jones, BLM, Moab District Office at 4:15 P.M. on 9/11/86.

RECEIVED
SEP 15 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson

TITLE Petroleum Engineer

DATE

9/12/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side